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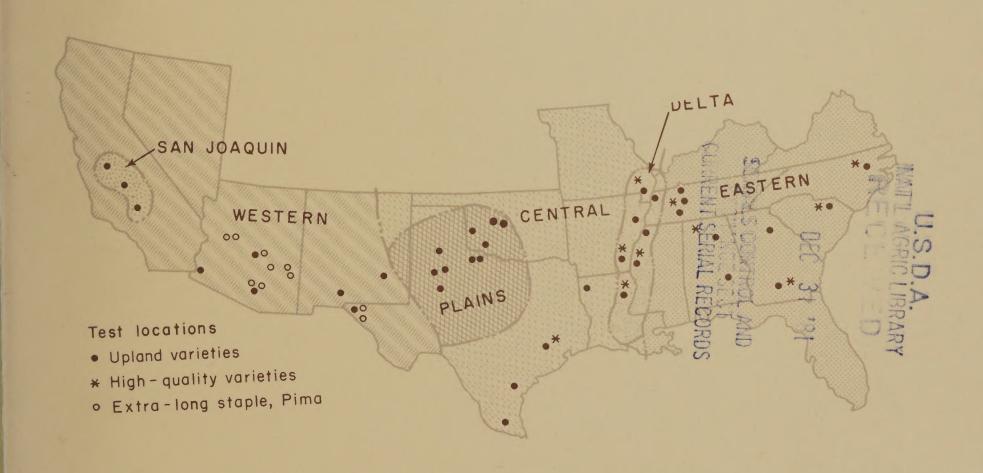
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Regional Cotton Variety Tests, 1977

Yield, Boll, Seed, and Spinning Data



Science and Education Administration U.S. Department of Agriculture



REGIONAL COTTON VARIETY TESTS, 1977

Yield, Boll, Seed, and Spinning Data

Compiled by H. H. Ramey, Jr., research geneticist, and N. J. Acres, statistical assistant, Cotton Quality Laboratory, Science and Education Administration, in cooperation with the agricultural experiment stations of Alabama, Arizona, Arkansas, California, Georgia, Louisiana, Mississippi, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, Tennessee, and Texas

The Regional Cotton Variety Test series is available free of charge from USDA's Cotton Quality Laboratory. Limited quantities of the following back issues are available:

Test year	Report
1968 1969 1970 1971 1972 1973 1974	U.S. Agricultural Research Service [Report] ARS 34-113 " " " ARS 34-123 " " ARS 34-130 " ARS-S-33 " ARS-S-62 U.S. Science and Education Administration, New Orleans, La. (pub. 1979)
1976 1978	U.S. Science and Education Administration, New Orleans, La. (pub. 1980) " " " (pub. 1980) " (pub. 1980)

This report contains yield, boll, seed (except for the High Quality Regional Cotton Variety Test), and spinning data. Fiber data are not available at this time.

NEW ADDRESS FOR COTTON QUALITY LABORATORIES

USDA's Cotton Quality Laboratories have been moved from Knoxville, Tenn. The new mailing address is

Cotton Quality Laboratory,
Southern Regional Research Center,
P.O. Box 19687,
New Orleans, La. 70179.

Regional Cotton Variety Tests, 1977. Yield, Boll, Seed, and Spinning Data. Issued December 1980.

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INTRODUCTION

The National Cotton Variety Testing Program, developed from recommendations of the Joint Cotton Breeding Policy Committee, is a system for uniform reporting of data from cotton-yield trials across the U.S. Cotton Belt. The trials are conducted annually at selected locations involved in the variety-testing programs of the cooperating State agricultural experiment stations. The National Cotton Variety Testing Committee is responsible for coordinating program plans from year to year.

National standard varieties are chosen for a 3-year cycle of testing. For the sixth 3-year cycle, beginning in 1975, the national standards were Acala 1517-70, Coker 310, Deltapine 16, and Paymaster 909. Within each region, cooperators annually select a group of regional standard varieties that are common to all tests within the region for the particular year. Each station may add entries of local interest, but only data on the national and regional standards are included in this report. All varieties are grown to obtain experimental data, and the designation of national or regional standards is not an endorsement of the varieties by the U.S. Department of Agriculture or the cooperating State agricultural experiment stations.

Plot size, cultural practices, number of entries, and sampling methods are left to the discretion of the participating stations. While the details are not rigidly standardized, all tests are conducted by experienced personnel using sound experimental designs and procedures.

Yield, boll size, lint percentage, and seed index were supplied by the cooperating stations. Fiber and seed samples were sent to the Cotton Quality Laboratories, Science and Education Administration, Knoxville, Tenn., where fiber and yarn tests and seed determinations were made. The chemical analyses of seed were done by a private laboratory. (Fiber data for the 1977 samples are not yet available and do not appear in this report.) All data were assembled in the Cotton Quality Laboratories and analyzed at the University of Tennessee computer center.

In 1977 the National Cotton Variety Testing Program was organized as shown on the cover map. Upland varieties were grown in all six regions. Strains developed in the Southern States with superior fiber properties and spinning performance were tested in three contiguous regions (high-quality test). Extra-long-staple American Pima varieties were tested in the Western Region.

REGIONAL TESTS AND PARTICIPATING STATIONS

Eastern Regional Cotton Variety Test (Upland Varieties)

Alabama Agricultural Experiment Station
Sand Mountain Substation
Georgia Coastal Plain Experiment Station
Georgia College Experiment Station
Pee Dee Experiment Station
Upper Coastal Plain Experiment Station
West Tennessee Agricultural Experiment Station
Ames Plantation
Milan Field Station

Auburn, Ala.
Crossville, Ala.
Tifton, Ga.
Athens, Ga.
Florence, S.C.
Rocky Mount, N.C.
Jackson, Tenn.
Grand Junction, Tenn.
Milan, Tenn.

Delta Regional Cotton Variety Test (Upland Varieties)

Arkansas Agricultural Experiment Station:

Delta Substation

Southeast Branch Experiment Station

Mississippi Agricultural and Forestry Experiment

Station:

Delta Branch

Off-station test

Missouri Agricultural Experiment Station,

Delta Center

Northeast Louisiana Experiment Station

West Tennessee Agricultural Experiment Station,

off-station test

Clarkedale, Ark. Rohwer, Ark.

Stoneville, Miss.

Tunica, Miss.

Portageville, Mo. St. Joseph, La.

Ridgely, Tenn.

Central Regional Cotton Variety Test (Upland Varieties)

Red River Valley Experiment Station

Texas A&M University:

Agricultural Research and Extension Center

Agricultural Research Station, off-station test

Texas Agricultural Experiment Station

Bossier City, La.

Weslaco, Tex.

Nueces County, Tex. College Station, Tex.

Plains Regional Cotton Variety Test (Upland Varieties)

Oklahoma Agricultural Experiment Station:

Cotton Research Station:

Dryland test

Irrigated test

Irrigation Experiment Station

Sandy Land Research Station

Texas A&M University:

Agricultural Research and Extension Center

(Chillicothe):

Dryland test

Irrigated test

Agricultural Research and Extension Center

(Lubbock):

Dryland test

Irrigated test

Off-station tests

Chickasha, Okla. Chickasha, Okla. Altus, Okla. Mangum, Okla.

Chillicothe, Tex. Chillicothe, Tex.

Continue on

Lubbock, Tex.

Lubbock, Tex.

Halfway, Tex.

Lamesa, Tex.

Western Regional Cotton Variety Test (Upland Varieties)

Arizona Agricultural Experiment Station:

Cotton Research Center

Marana Experimental Farm

Yuma Valley Station

New Mexico Agricultural Experiment Station

Southeastern Branch Station

Texas A&M University,

Agricultural Research Center

Phoenix, Ariz.
Marana, Ariz.
Yuma, Ariz.
Las Cruces N. Me

Las Cruces, N. Mex. Artesia, N. Mex.

El Paso, Tex.

San Joaquin Valley Continuous Cotton Variety Test (Upland Varieties)

California Agricultural Experiment Station: West Side Field Station Off-station tests

Five Points, Calif. Kern Lake, Calif. Madera, Calif.

High-Quality Regional Cotton Variety Test

Alabama Agricultural Experiment Station, Tennessee Valley Substation

Arkansas Agricultural Experiment Station,

Southeast Branch

Georgia Coastal Plain Experiment Station

Mississippi Agricultural and Forestry Experiment

Station, Delta Branch

Missouri Agricultural Experiment Station,

Delta Center

Northeast Louisiana Experiment Station

Pee Dee Experiment Station

Texas Agricultural Experiment Station

Upper Coastal Plain Experiment Station

West Tennessee Agricultural Experiment Station

Belle Mina, Ala.

Rohwer, Ark.

Tifton, Ga.

Stoneville, Miss.

Portageville, Mo. St. Joseph, La. Florence, S.C.

College Station, Tex. Rocky Mount, N.C.

Jackson, Tenn.

Pima Regional Cotton Variety Test

Arizona Agricultural Experiment Station:

Cotton Research Center Off-station tests

Marana Experimental Farm

Off-station test, Clark farm

Safford Branch Station

Off-station test, Curtis farm

Texas A&M University:

Agricultural Research Center Off-station test, Maros farm

Phoenix, Ariz.

Coolidge, Ariz.

Salome, Ariz.

Wenden, Ariz.

Marana, Ariz.

Marana, Ariz.

Safford, Ariz.

Safford, Ariz.

El Paso, Tex. Fabens, Tex.

Combed-Yarn Test (American Pima Varieties)

American Pima cottons are commonly spun into combed yarns. In addition to the data taken at Knoxville, Tenn., combed yarn tests of Pima cotton grown at three locations conducting the Pima Regional Cotton Variety Test were made by the Agricultural Marketing Service, U.S. Department of Agriculture, at its Clemson, S.C., laboratory. Classer's grade and staple, yarn tenacity of 11.8- and 7.4-tex (50's and 80's cotton count) yarns, appearance index, imperfections per 50 metres, and waste percentages are reported.

TEST RESULTS

No interpretation of the test results

other than the indication of the significant differences among means based on an analysis of variance is presented. Means as determined by Duncan's multiple-range followed by the same letter or letters

test. A randomized-block design was used for all analyses, although some tests were planted in lattice designs.

The yield reported for each variety is the average derived from the number of replications used. From three to eight replications were planted, depending on the station, and six replications were more commonly used. Boll size, lint percentage, and seed, fiber, and yarn data are based on two replications of each variety at all locations.

The tables for each regional test are arranged as follows: In the first four tables, average data for the entire region are given by cotton variety and location; the entries in these tables are arranged in order of decreasing lint yield. (For some tests, subregional summaries are also included.) Following these tables, average data for each location in the region are given, each table being arranged by variety in decreasing order of lint yield.

The column headings and symbols are defined as follows:

Acid-delinted-seed index. The mass of 100 acid-delinted seeds, in grams.

Boll size. The mass, in grams, per boll of seed cotton.

Classer's designation. A description of the quality of cotton in terms of grade and staple according to the official cotton standards of the United States. For grade, classification is based on appearance and is accomplished chiefly through the sense of sight by integration of the three factors of grade--color, leaf, and preparation--in the sample. Classification for staple length involves both sight and touch and is made by pulling out and comparing a typical portion of fiber from a sample with the official staple types.

Colorimeter. These measurements were determined by the Nickerson-Hunter colorimeter (Spinlab model). Hunter's b value is a measure of increasing yellowness of the cotton. $\underline{R}_{\underline{d}}$ is the percentage of the reflectance; the higher the value, the lighter the cotton.

Floaters. The number of acid-delinted seeds that float in water, expressed as a percentage of the number of seeds in the sample. Seeds that float in water are

considered immature, and a higher percentage indicates more immaturity.

Free gossypol. The gossypol in fuzzy seeds as determined by AOCS Method Ba 7-58; expressed as a percentage of the mass of the kernel.

<u>Linters</u>. The mass of linters removed in the acid-delinting process, expressed as a percentage of the mass of the fuzzy seeds.

<u>Lint percent</u>. The mass of lint ginned from a sample of seed cotton, expressed as a percentage of the mass of seed cotton.

<u>Lint yield</u>. The mean production of the plots harvested, expressed in pounds of lint per acre.

Micronaire. The fineness of the sample taken from the ginned lint, measured by the Micronaire and expressed in standard (curvilinear scale) micronaire units.

Nitrogen. The nitrogen in fuzzy seeds as determined by AOCS Method Ba 4-38; expressed as a percentage of the mass of the fuzzy seeds. The percentage of nitrogen multiplied by 6.25 is an approximation of the percentage of protein.

Oil. The oil in fuzzy seeds as determined by AOCS Method Aa 4-48; expressed as a percentage of the mass of the fuzzy seeds.

<u>Seed density</u>. The mass per volume of a seed, expressed in grams per cubic centimetre; the specific gravity.

Seed grade. A visual estimate of the amount of linters on seeds. Seeds are graded from 1 to 16; 1=most dense coating, and 16=no linters (completely naked).

<u>Seed index</u>. The mass of 100 seeds, in grams.

Seed surface area. The surface area of a seed in square millimetres; estimated by assuming that a seed is a cone on a hemispherical base and that the ratio of the diameter to the length is 1:1.755.

Seed volume. The volume of a seed in cubic millimetres.

Span length. Fiber length measured on the

Digital Fibrograph. The distance spanned by a specified percentage of the fibers in the test specimen, where the initial starting point of the scanning in the test is considered 100 percent. The 2.5-percent span length is the length, in inches, on the test specimen spanned by 2.5 percent of the fibers scanned at the initial starting point. The 2.5-percent span length approximates classer's staple. The 50-percent span length is the length, in inches, on the test specimen spanned by 50 percent of the fibers scanned at the initial starting point.

Tex. The linear density of fibers, filaments, and yarns, expressed as the mass, in milligrams, of 1 metre of fiber or yarn.

Waste. The difference in mass, expressed as a percentage, of the fed stock and

delivered stock. <u>Picker and card</u> waste is the loss in mass during opening, picking, and carding. <u>Comber</u> waste is the loss in mass during combing.

Yarn appearance index. The relative evenness, smoothness, and freedom from foreign material of the yarn as evaluated by a visual comparison of the yarn with the standards adopted by the American Society for Testing and Materials. Higher numbers indicate more even and smooth yarns with less foreign material.

Yarn imperfections. The abrupt changes in the silhouette of the yarn while passing through a beam of light, expressed as the number of such changes per 50 metres of yarn.

Yarn tenacity. The strength of the yarn, in centinewtons per tex (cN/tex).

EASTERN REGIONAL COTTON VARIETY TEST

Table 1.--Eastern test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	782 a	5.67 cd	39.4 de	10.6 g	5.15 ef
McNair 3033	731 ab	4.97 i	39.5 de	10.8 efg	5.25 cde
Deltapine 61	716 ab	5.53 defg	39.5 de	10.9 def	5.54 a
Coker 310	704 ab	5.94 ab	39.5 de	10.7 efg	5.09 efg
Deltapine 55	702 ab	5.39 efgh	41.3 a	10.1 h	5.16 ef
Deltapine 26	701 ab	5.35 fgh	40.7 ab	10.5 g	5.44 ab
Coker 304	684 ab	5.56 cdef	39.7 cd	10.7 fg	5.17 ef
Coker 420	675 ab	5.62 cde	38.0 g	10.6 b	5.16 ef
Stoneville 213	664 b	5.49 defg	39.1 de	10.8 efg	5.38 bc
Pee Dee 9241	663 b	5.18 hi	39.3 de	11.4 bc	5.07 fg
Deltapine 16	663 b	5.78 bc	38.8 ef	11.1 cd	5.21 def
Stoneville 603	637 b	5.31 gh	40.3 bc	10.8 defg	5.35 bcd
Dixie King 3	625 b	5.98 ab	39.0 def	11.0 de	4.96 g
Acala 1517-70	491 c	5.62 cde	36.1 h	12.0 a	4.62 h
Paymaster 909	420 c	6.15 a	38.3 fg	12.3 a	5.22 cdef
	Span length (inches)	Colori	meter	Yarn
	2 5%	= 00			
	2.5%	50%	$R_{\mathcal{A}}$	Hunter's	tenacity
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
McNair 220	1.09 ef	50% 	$\frac{R_d}{70.2 \text{ abc}}$		•
McNair 220 McNair 3033				b value	(cN/tex)
McNair 3033	1.09 ef	0.51 cde	70.2 abc	b value 8.5 bc	(cN/tex) 11.8 de
	1.09 ef 1.11 bcd	0.51 cde .52 bcd	70.2 abc 70.6 abc	8.5 bc 8.7 ab	(cN/tex) 11.8 de 12.0 cd
McNair 3033 Deltapine 61	1.09 ef 1.11 bcd 1.11 bc	0.51 cde .52 bcd .53 a	70.2 abc 70.6 abc 71.1 ab	8.5 bc 8.7 ab 9.0 a	(cN/tex) 11.8 de 12.0 cd 11.7 def
McNair 3033 Deltapine 61 Coker 310 Deltapine 55	1.09 ef 1.11 bcd 1.11 bc 1.13 ab	0.51 cde .52 bcd .53 a .52 bcd	70.2 abc 70.6 abc 71.1 ab 69.0 d	8.5 bc 8.7 ab 9.0 a 9.0 a	(cN/tex) 11.8 de 12.0 cd 11.7 def 11.6 def 11.4 efg
McNair 3033 Deltapine 61 Coker 310	1.09 ef 1.11 bcd 1.11 bc 1.13 ab 1.09 de	0.51 cde .52 bcd .53 a .52 bcd .50 de	70.2 abc 70.6 abc 71.1 ab 69.0 d 70.4 abc	8.5 bc 8.7 ab 9.0 a 9.0 a 9.0 a	(cN/tex) 11.8 de 12.0 cd 11.7 def 11.6 def
McNair 3033 Deltapine 61 Coker 310 Deltapine 55 Deltapine 26	1.09 ef 1.11 bcd 1.11 bc 1.13 ab 1.09 de 1.09 e	0.51 cde .52 bcd .53 a .52 bcd .50 de .51 bcd	70.2 abc 70.6 abc 71.1 ab 69.0 d 70.4 abc 70.6 abc	8.5 bc 8.7 ab 9.0 a 9.0 a 9.0 a 8.8 ab	(cN/tex) 11.8 de 12.0 cd 11.7 def 11.6 def 11.4 efg 11.2 efg
McNair 3033 Deltapine 61 Coker 310 Deltapine 55 Deltapine 26 Coker 304	1.09 ef 1.11 bcd 1.11 bc 1.13 ab 1.09 de 1.09 e 1.11 cd	0.51 cde .52 bcd .53 a .52 bcd .50 de .51 bcd .51 cde	70.2 abc 70.6 abc 71.1 ab 69.0 d 70.4 abc 70.6 abc 70.0 abcd	8.5 bc 8.7 ab 9.0 a 9.0 a 9.0 a 8.8 ab 9.0 a	(cN/tex) 11.8 de 12.0 cd 11.7 def 11.6 def 11.4 efg 11.2 efg 11.4 defg
McNair 3033 Deltapine 61 Coker 310 Deltapine 55 Deltapine 26 Coker 304 Stoneville 213	1.09 ef 1.11 bcd 1.11 bc 1.13 ab 1.09 de 1.09 e 1.11 cd 1.13 a	0.51 cde .52 bcd .53 a .52 bcd .50 de .51 bcd .51 cde .53 ab	70.2 abc 70.6 abc 71.1 ab 69.0 d 70.4 abc 70.6 abc 70.0 abcd 70.0 abcd	8.5 bc 8.7 ab 9.0 a 9.0 a 9.0 a 8.8 ab 9.0 a 8.9 a	(cN/tex) 11.8 de 12.0 cd 11.7 def 11.6 def 11.4 efg 11.2 efg 11.4 defg 12.4 bc
McNair 3033 Deltapine 61 Coker 310 Deltapine 55 Deltapine 26 Coker 304 Coker 420 Stoneville 213 Pee Dee 9241	1.09 ef 1.11 bcd 1.11 bc 1.13 ab 1.09 de 1.09 e 1.11 cd 1.13 a 1.08 ef	0.51 cde .52 bcd .53 a .52 bcd .50 de .51 bcd .51 cde .53 ab .50 de	70.2 abc 70.6 abc 71.1 ab 69.0 d 70.4 abc 70.6 abc 70.0 abcd 70.0 abcd 69.9 bcd	8.5 bc 8.7 ab 9.0 a 9.0 a 9.0 a 8.8 ab 9.0 a 8.9 a 9.0 a	(cN/tex) 11.8 de 12.0 cd 11.7 def 11.6 def 11.4 efg 11.2 efg 11.4 defg 12.4 bc 10.8 g
McNair 3033 Deltapine 61 Coker 310 Deltapine 55 Deltapine 26 Coker 304 Coker 420 Stoneville 213 Pee Dee 9241	1.09 ef 1.11 bcd 1.11 bc 1.13 ab 1.09 de 1.09 e 1.11 cd 1.13 a 1.08 ef 1.11 bc	0.51 cde .52 bcd .53 a .52 bcd .50 de .51 bcd .51 cde .53 ab .50 de .50 de	70.2 abc 70.6 abc 71.1 ab 69.0 d 70.4 abc 70.6 abc 70.0 abcd 70.0 abcd 69.9 bcd 71.2 a	8.5 bc 8.7 ab 9.0 a 9.0 a 9.0 a 8.8 ab 9.0 a 8.9 a 9.0 a 8.3 c	(cN/tex) 11.8 de 12.0 cd 11.7 def 11.6 def 11.4 efg 11.2 efg 11.4 defg 12.4 bc 10.8 g 12.7 b 11.1 fg
McNair 3033 Deltapine 61 Coker 310 Deltapine 55 Deltapine 26 Coker 304 Coker 420 Stoneville 213 Pee Dee 9241 Deltapine 16	1.09 ef 1.11 bcd 1.11 bc 1.13 ab 1.09 de 1.09 e 1.11 cd 1.13 a 1.08 ef 1.11 bc 1.11 cd 1.09 ef	0.51 cde .52 bcd .53 a .52 bcd .50 de .51 bcd .51 cde .53 ab .50 de .54 a .51 cde	70.2 abc 70.6 abc 71.1 ab 69.0 d 70.4 abc 70.6 abc 70.0 abcd 70.0 abcd 69.9 bcd 71.2 a 70.9 ab	8.5 bc 8.7 ab 9.0 a 9.0 a 9.0 a 8.8 ab 9.0 a 8.9 a 9.0 a 8.3 c 8.8 ab	(cN/tex) 11.8 de 12.0 cd 11.7 def 11.6 def 11.4 efg 11.2 efg 11.4 defg 12.4 bc 10.8 g 12.7 b 11.1 fg 11.1 fg
McNair 3033 Deltapine 61 Coker 310 Deltapine 55 Deltapine 26 Coker 304 Coker 420 Stoneville 213 Pee Dee 9241 Deltapine 16 Stoneville 603	1.09 ef 1.11 bcd 1.11 bc 1.13 ab 1.09 de 1.09 e 1.11 cd 1.13 a 1.08 ef 1.11 bc 1.11 cd	0.51 cde .52 bcd .53 a .52 bcd .50 de .51 bcd .51 cde .53 ab .50 de .54 a .51 cde .51 cde	70.2 abc 70.6 abc 71.1 ab 69.0 d 70.4 abc 70.6 abc 70.0 abcd 70.0 abcd 69.9 bcd 71.2 a 70.9 ab 70.0 abcd	8.5 bc 8.7 ab 9.0 a 9.0 a 9.0 a 8.8 ab 9.0 a 8.9 a 9.0 a 8.3 c 8.8 ab 8.6 bc	(cN/tex) 11.8 de 12.0 cd 11.7 def 11.6 def 11.4 efg 11.2 efg 11.4 defg 12.4 bc 10.8 g 12.7 b 11.1 fg

Table 2.--Eastern test: Seed data by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	19.3 cd	3.58 d	1.06 def	10.5 ef	5.7 abc
McNair 3033	21.1 a	3.80 a	1.21 a	11.1 de	4.9 fg
Deltapine 61	19.3 cd	3.51 ef	1.08 cde	10.4 ef	5.7 abc
Coker 310	19.3 cd	3.65 c	1.06 def	11.9 bc	5.0 efg
Deltapine 55	18.8 ef	3.56 de	1.13 bc	10.6 ef	5.7 ab
Deltapine 26	17.7 h	3.53 ef	1.07 cde	9.4 g	6.0 a
Coker 304	19.8 Ь	3.70 ь	1.07 cde	11.1 de	5.1 defg
Coker 420	20.0 b	3.65 c	1.23 a	14.4 a	4.0 h
Stoneville 213	18.0 gh	3.51 ef	1.19 ab	12.5 h	4.7 g
Pee Dee 9241	20.8 a	3.64 c	1.23 a	9.5 g	6.1 a
Deltapine 16	19.7 bc	3.49 f	1.03 ef	10.8 ef	5.8 ab
Stoneville 603	18.8 e	3.61 cd	1.24 a	10.3 f	5.4 bcde
Dixie King 3	19.0 de	3.50 f	1.12 cd	11.7 cd	5.2 cdef
Acala 1517-70	20.1 b	3.49 f	1.00 f	11.6 cd	4.6 g
Paymaster 909	18.4 fg	3.59 d	.92 g	11.1 de	5.5 bcd
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
	(mm ³)	area (mm ²)	(g/cm ³)		seed index
McNair 220	93.2 ef	107.8 ef	1.031 de	6.6 bcd	9.5 e
McNair 3033	86.0 h	102.1 h	1.100 a	2.6 e	9.5 e
Deltapine 61	92.9 ef	107.5 ef	1.040 cde	5.6 bcd	9.5 e
Coker 310	91.0 fg	106.1 fg	1.063 bc	4.8 cd	9.6 e
Deltapine 55	86.6 h	102.4 h	1.049 bcde	5.1 cd	9.0 f
Deltapine 26	94.8 def	109.0 def	.993 f	7.2 Ъ	9.4 e
Coker 304	88.5 gh	104.1.gh	1.070 Ъ	5.1 cd	9.4 e
Coker 420	95.5 de	109.5 de	1.051 bcd	4.8 cd	10.0 c
Stoneville 213	92.6 ef	107.2 ef	1.030 de	7.5 Ъ	9.4 e
Pee Dee 9241	100.2 c	113.1 c	1.041 cde	4.6 d	10.3 b
Deltapine 16	98.3 cd	111.6 c	1.024 e	5.8 bcd	10.0 c
Stoneville 603	91.1 fg	106.1 fg	1.044 cde	4.6 d	9.6 de
Dixie King 3	94.7 def	108.9 def	1.047 bcde		9.8 cd
Acala 1517-70	104.8 Ъ	116.6 b	1.052 bcd	6.9 bc	11.0 a
neara 1517 70					

Table 3.--Eastern test: Yield, boll, and spinning data by test location

Location	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Florence, SC	1001 a	6.29 a	38.2 e	12.0 a	5.35 b
Milan, TN	977 b	5.86 b	38.6 de	10.9 c	4.89 e
Ames Plantation, TN	704 c	6.16 a	39.0 d	11.1 b	5.05 d
Athens, GA	702 c	5.29 d	39.0 d	12.1 a	5.52 a
Jackson, TN	661 d	5.80 bc	35.2 f	10.8 cd	4.57 f
Tifton, GA	486 e	4.93 f	41.3 b		5.42 ab
Crossville, AL	381 f	5.64 c	42.7 a	10.5 e	5.15 cd
Rocky Mount, NC	346 g	5.01 ef	38.6 de	10.0 f	5.54 a
Auburn, AL		5.16 de	40.5 c	10.7 d	5.18 c
	Span length (inches)	Color	rimeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity
			а	b value	(cN/tex)
Florence, SC	1.16 a	0.53 b	75.6 a	8.2 f	11.9 c
Milan, TN	1.14 b	.53 b	75.2 ab	9.3 c	13.0 a
Ames Plantation, TN	1.07 d	.49 cd	67.3 f	8.9 d	10.2 e
Athens, GA	1.12 c	.56 a	73.3 c	9.6 b	12.6 ab
Jackson, TN	1.13 b	.53 b	74.7 b	10.6 a	12.9 a
Tifton, GA	1.08 d	.50 c	68.9 e	8.3 f	11.2 d
Crossville, AL	1.08 d	.47 e	59.1 h	6.4 g	9.9 e
Rocky Mount, NC	1.03 f	.49 cd	71.8 d	8.6 e	12.2 bc
Auburn, AL	1.05 e	.49 d	65.0 g	9.0 d	10.9 d

Table 4.--Eastern test: Seed data by test location

Location	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Florence, SC Milan, TN Ames Plantation, TN Athens, GA Jackson, TN Tifton, GA Crossville, AL Rocky Mount, NC Auburn, AL	20.3 b 18.5 e 19.9 c 19.5 d 17.8 f 21.0 a 19.4 d 19.2 d 18.3 e	3.16 g 3.58 d 3.44 e 3.80 b 3.73 c 3.33 f 3.59 d 3.86 a 3.80 b	1.45 a 1.20 c 1.13 d 1.14 d .95 e 1.29 b 1.11 d .94 e .77 f	12.8 ab 11.9 cd 12.3 bc 12.5 ab 12.9 a 11.5 d 9.0 f 9.7 e 7.7 g	3.9 d 5.5 b 5.7 b 5.6 b 4.9 c 5.6 b 4.9 c 6.6 a 5.0 c
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Florence, SC Milan, TN Ames Plantation, TN Athens, GA Jackson, TN Tifton, GA Crossville, AL Rocky Mount, NC Auburn, AL	89.5 d 103.5 a 98.2 b 97.8 b 95.0 c 85.8 e 101.5 a 85.2 e 98.0 b	104.8 d 115.6 a 111.6 b 111.2 bc 109.2 c 101.8 e 114.1 a 101.4 e 111.4 b	1.126 a .964 e 1.013 d 1.069 b 1.035 c 1.116 a .981 e 1.080 b .980 e	4.0 d 9.2 b 4.1 d 3.4 d 8.4 b 5.7 c 5.9 c 2.8 d 10.7 a	10.4 a 10.0 b 9.9 b 10.6 a 9.8 b 9.5 cd 9.3 de 9.2 e 9.6 c

Table 5.-- Eastern test: Yield, boll, and spinning data for Florence, S.C.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	1339 a	6.72	38.2	11.8	5.50
McNair 3033	1139 b	5.28	38.1	11.7	5.35
Pee Dee 9241	1130 b	6.11	38.5	12.9	5.50
Deltapine 61	1127 b	6.05	39.0	11.2	5.50
Coker 310	1088 bc	6.53	38.3	11.4	5.15
Deltapine 26	1076 bcd	5.80	40.7	10.8	5.65
Deltapine 55	1056 bcde	6.15	39.8	10.5	5.45
Stoneville 213	1030 bcde	6.06	38.1	11.6	5.40
Coker 420	1004 cde	6.70	36.2	13.7	5.50
Coker 304	989 cde	5.94	39.0	11.6	5.20
Stoneville 603	958 def	5.58	38.2	11.7	5.60
Deltapine 16	941 ef	6.41	37.1	12.2	4.95
Dixie King 3	870 f	6.83	38.6	12.1	5.55
Acala 1517-70	653 g	6.47	35.7	13.3	4.65
Paymaster 909	613 g	7.78	37.2	14.6	5.35
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity
			α	b value	(cN/tex)
McNair 220	1.15	0.53	76.2	8.4	11.9
McNair 3033	1.12	.51	76.6	8.3	12.5
Incharr 2022		• O.T.	70.0	0.0	1-10
	1.22	.57	74.9	8.3	12.1
Pee Dee 9241					
Pee Dee 9241 Deltapine 61	1.22	.57	74.9	8.3	12.1
Pee Dee 9241 Deltapine 61 Coker 310	1.22 1.18	.57 .58	74.9 76.0	8.3 8.1	12.1 12.9
Pee Dee 9241 Deltapine 61 Coker 310	1.22 1.18 1.25	.57 .58 .58	74.9 76.0 75.6	8.3 8.1 8.3	12.1 12.9 12.3
Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26	1.22 1.18 1.25 1.14	.57 .58 .58 .51	74.9 76.0 75.6 75.1	8.3 8.1 8.3 8.5	12.1 12.9 12.3 11.9
Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55	1.22 1.18 1.25 1.14 1.14	.57 .58 .58 .51	74.9 76.0 75.6 75.1 76.3	8.3 8.1 8.3 8.5 8.3	12.1 12.9 12.3 11.9
Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213	1.22 1.18 1.25 1.14 1.14	.57 .58 .58 .51 .51	74.9 76.0 75.6 75.1 76.3 74.5	8.3 8.1 8.3 8.5 8.3 7.6	12.1 12.9 12.3 11.9 11.6 10.9
Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213 Coker 420	1.22 1.18 1.25 1.14 1.14 1.14	.57 .58 .58 .51 .51 .53	74.9 76.0 75.6 75.1 76.3 74.5	8.3 8.1 8.3 8.5 8.3 7.6 8.2	12.1 12.9 12.3 11.9 11.6 10.9
Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213 Coker 420 Coker 304 Stoneville 603	1.22 1.18 1.25 1.14 1.14 1.14 1.20 1.18	.57 .58 .58 .51 .51 .53 .54	74.9 76.0 75.6 75.1 76.3 74.5 74.6	8.3 8.1 8.3 8.5 8.3 7.6 8.2 8.5	12.1 12.9 12.3 11.9 11.6 10.9 12.2 12.2
Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213 Coker 420 Coker 304 Stoneville 603 Deltapine 16	1.22 1.18 1.25 1.14 1.14 1.14 1.20 1.18	.57 .58 .58 .51 .51 .53 .54 .51	74.9 76.0 75.6 75.1 76.3 74.5 74.6 74.6	8.3 8.1 8.3 8.5 8.3 7.6 8.2 8.5 8.4	12.1 12.9 12.3 11.9 11.6 10.9 12.2 12.2
Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213 Coker 420 Coker 304 Stoneville 603	1.22 1.18 1.25 1.14 1.14 1.14 1.20 1.18 1.14 1.20	.57 .58 .58 .51 .51 .53 .54 .51	74.9 76.0 75.6 75.1 76.3 74.5 74.6 74.6 76.8 77.8	8.3 8.1 8.3 8.5 8.3 7.6 8.2 8.5 8.4 7.9	12.1 12.9 12.3 11.9 11.6 10.9 12.2 12.2 10.9 11.3

Table 6.--Eastern test: Seed data for Florence, S.C.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	21.3	3.03	1.46	11.8	5.5
McNair 3033	21.8	3.22	1.52	13.2	4.0
Pee Dee 9241	22.2	3.15	1.66	10.8	5.5
Deltapine 61	19.7	3.06	1.34	12.9	4.0
Coker 310	20.6	3.04	1.48	13.5	3.0
Deltapine 26	18.2	3.15	1.30	10.0	5.0
Deltapine 55	19.6	3.21	1.55	12.3	4.5
Stoneville 213	20.0	3.27	1.58	14.2	3.5
Coker 420	20.1	3.07	1.61	18.7	1.0
Coker 304	20.4	3.28	1.44	13.0	3.0
Stoneville 603	20.0	3.30	1.54	11.7	4.0
Deltapine 16	20.4	2.96	1.30	13.1	4.0
Dixie King 3	20.8	3.16	1.48	12.7	4.0
Acala 1517-70	20.8	3.15	1.24	12.6	3.0
Paymaster 909	19.5	3.26	1.16	11.4	4.5
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
	2 .	area (mm ²)	(g/cm ³)		seed index
	(mm ³)	area (nm)	(8, 0,)		
McNair 220				4.8	10.1
McNair 220	87.4	103.4	1.146	4.8	10.1
McNair 3033	87.4 78.4	103.4 96.1	1.146 1.070	1.0	10.0
McNair 3033 Pee Dee 9241	87.4 78.4 100.8	103.4 96.1 113.7	1.146 1.070 1.138	1.0 1.2	10.0 11.5
McNair 3033 Pee Dee 9241 Deltapine 61	87.4 78.4 100.8 88.4	103.4 96.1 113.7 104.1	1.146 1.070 1.138 1.092	1.0 1.2 3.2	10.0 11.5 9.6
McNair 3033 Pee Dee 9241 Deltapine 61 Coker 310	87.4 78.4 100.8 88.4 84.2	103.4 96.1 113.7 104.1 100.8	1.146 1.070 1.138 1.092 1.186	1.0 1.2 3.2 2.2	10.0 11.5 9.6 10.0
McNair 3033 Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26	87.4 78.4 100.8 88.4 84.2 79.8	103.4 96.1 113.7 104.1 100.8 97.3	1.146 1.070 1.138 1.092 1.186 1.042	1.0 1.2 3.2 2.2 3.2	10.0 11.5 9.6 10.0 9.5
McNair 3033 Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55	87.4 78.4 100.8 88.4 84.2 79.8 77.6	103.4 96.1 113.7 104.1 100.8 97.3 95.5	1.146 1.070 1.138 1.092 1.186 1.042 1.218	1.0 1.2 3.2 2.2 3.2 1.8	10.0 11.5 9.6 10.0 9.5 9.5
McNair 3033 Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213	87.4 78.4 100.8 88.4 84.2 79.8 77.6 85.1	103.4 96.1 113.7 104.1 100.8 97.3 95.5 101.5	1.146 1.070 1.138 1.092 1.186 1.042 1.218 1.174	1.0 1.2 3.2 2.2 3.2 1.8 2.2	10.0 11.5 9.6 10.0 9.5 9.5
McNair 3033 Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213 Coker 420	87.4 78.4 100.8 88.4 84.2 79.8 77.6 85.1 95.0	103.4 96.1 113.7 104.1 100.8 97.3 95.5 101.5	1.146 1.070 1.138 1.092 1.186 1.042 1.218 1.174 1.138	1.0 1.2 3.2 2.2 3.2 1.8 2.2 2.0	10.0 11.5 9.6 10.0 9.5 9.5 10.0 10.8
McNair 3033 Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213 Coker 420 Coker 304	87.4 78.4 100.8 88.4 84.2 79.8 77.6 85.1 95.0 120.6	103.4 96.1 113.7 104.1 100.8 97.3 95.5 101.5 109.2 128.0	1.146 1.070 1.138 1.092 1.186 1.042 1.218 1.174 1.138 1.067	1.0 1.2 3.2 2.2 3.2 1.8 2.2 2.0 6.5	10.0 11.5 9.6 10.0 9.5 9.5 10.0 10.8 12.9
McNair 3033 Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213 Coker 420 Stoneville 603	87.4 78.4 100.8 88.4 84.2 79.8 77.6 85.1 95.0 120.6 80.2	103.4 96.1 113.7 104.1 100.8 97.3 95.5 101.5 109.2 128.0 97.6	1.146 1.070 1.138 1.092 1.186 1.042 1.218 1.174 1.138 1.067 1.176	1.0 1.2 3.2 2.2 3.2 1.8 2.2 2.0 6.5 2.5	10.0 11.5 9.6 10.0 9.5 9.5 10.0 10.8 12.9 9.8
McNair 3033 Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213 Coker 420 Coker 304 Stoneville 603 Deltapine 16	87.4 78.4 100.8 88.4 84.2 79.8 77.6 85.1 95.0 120.6 80.2 79.4	103.4 96.1 113.7 104.1 100.8 97.3 95.5 101.5 109.2 128.0 97.6 96.9	1.146 1.070 1.138 1.092 1.186 1.042 1.218 1.174 1.138 1.067 1.176 1.038	1.0 1.2 3.2 2.2 3.2 1.8 2.2 2.0 6.5 2.5	10.0 11.5 9.6 10.0 9.5 9.5 10.0 10.8 12.9 9.8 10.0
McNair 3033 Pee Dee 9241 Deltapine 61 Coker 310 Deltapine 26 Deltapine 55 Stoneville 213 Coker 420 Stoneville 603	87.4 78.4 100.8 88.4 84.2 79.8 77.6 85.1 95.0 120.6 80.2	103.4 96.1 113.7 104.1 100.8 97.3 95.5 101.5 109.2 128.0 97.6	1.146 1.070 1.138 1.092 1.186 1.042 1.218 1.174 1.138 1.067 1.176	1.0 1.2 3.2 2.2 3.2 1.8 2.2 2.0 6.5 2.5	10.0 11.5 9.6 10.0 9.5 9.5 10.0 10.8 12.9 9.8

Table 7.-- Eastern test: Yield, boll, and spinning data for Milan, Tenn.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 603	1145 a	5.61	38.8	11.0	5.25
Deltapine 55	1137 ab	5.68	40.7	10.3	5.05
McNair 220	1100 ab	5.57	38.4	10.1	4.55
Deltapine 26	1064 abc	5.53	41.4	10.1	5.50
Deltapine 16	1058 abc	6.05	37.8	10.8	4.95
McNair 3033	1053 abcd	5.05	39.3	9.9	5.00
Deltapine 61	1042 abcd	5.96	38.0	10.7	5.35
Coker 304	1025 abcd	5.88	39.7	10.5	4.95
Dixie King 3	1017 abcd	6.76	38.0	11.1	4.15
Coker 310	980 bcd	5.96	39.4	10.3	4.65
Coker 420	909 cde	6.13	38.0	11.7	4.90
Pee Dee 9241	900 def	5.31	39.0	11.6	4.65
Acala 1517-70	775 e f g	5.68	35.3	12.5	4.25
Paymaster 909	762 fg	7.08	37.5	12.6	5.05
Stoneville 213	692 g	5.69	38.4	11.4	5.20
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity
			d	b value	(cN/tex)
Stoneville 603	1.14	0.53	75.0		•
	1.14	0.53		b value	(cN/tex)
Deltapine 55	1.14 1.11		75.0	<i>b</i> value 9.3	(cN/tex) 12.6
Deltapine 55 McNair 220	1.14 1.11 1.15	.48	75.0 76.4	9.3 9.3	(cN/tex) 12.6 12.4
Deltapine 55 McNair 220 Deltapine 26	1.14 1.11 1.15 1.11	.48 .54 .53	75.0 76.4 75.4	9.3 9.3 9.0	(cN/tex) 12.6 12.4 13.8
Deltapine 55 McNair 220 Deltapine 26 Deltapine 16	1.14 1.11 1.15 1.11 1.13	.48 .54 .53	75.0 76.4 75.4 76.7	9.3 9.3 9.0 9.4	(cN/tex) 12.6 12.4 13.8 11.8
Deltapine 55 McNair 220 Deltapine 26 Deltapine 16 McNair 3033	1.14 1.11 1.15 1.11 1.13 1.18	.48 .54 .53 .53	75.0 76.4 75.4 76.7 76.1 75.7	9.3 9.3 9.0 9.4 9.3	(cN/tex) 12.6 12.4 13.8 11.8 12.3
Deltapine 55 McNair 220 Deltapine 26 Deltapine 16 McNair 3033 Deltapine 61	1.14 1.11 1.15 1.11 1.13 1.18 1.16	.48 .54 .53 .53 .55	75.0 76.4 75.4 76.7 76.1	9.3 9.3 9.0 9.4 9.3 9.4	(cN/tex) 12.6 12.4 13.8 11.8 12.3 13.3 12.6
Deltapine 55 McNair 220 Deltapine 26 Deltapine 16 McNair 3033 Deltapine 61 Coker 304	1.14 1.11 1.15 1.11 1.13 1.18 1.16 1.17	.48 .54 .53 .53	75.0 76.4 75.4 76.7 76.1 75.7 76.2	9.3 9.3 9.0 9.4 9.3 9.4 9.2	(cN/tex) 12.6 12.4 13.8 11.8 12.3 13.3
Deltapine 55 McNair 220 Deltapine 26 Deltapine 16 McNair 3033 Deltapine 61 Coker 304 Dixie King 3	1.14 1.11 1.15 1.11 1.13 1.18 1.16	.48 .54 .53 .53 .55 .54	75.0 76.4 75.4 76.7 76.1 75.7 76.2 74.7	9.3 9.3 9.0 9.4 9.3 9.4 9.2 9.6	(cN/tex) 12.6 12.4 13.8 11.8 12.3 13.3 12.6 12.9
Deltapine 55 McNair 220 Deltapine 26 McNair 3033 McNair 3033 Deltapine 61 Coker 304 Dixie King 3 Coker 310	1.14 1.11 1.15 1.11 1.13 1.18 1.16 1.17	.48 .54 .53 .53 .55 .54	75.0 76.4 75.4 76.7 76.1 75.7 76.2 74.7 75.5	9.3 9.3 9.0 9.4 9.3 9.4 9.2 9.6 9.2	(cN/tex) 12.6 12.4 13.8 11.8 12.3 13.3 12.6 12.9 12.7
Deltapine 55 McNair 220 Deltapine 26 Deltapine 16 McNair 3033 Deltapine 61 Coker 304 Coker 310 Coker 420	1.14 1.11 1.15 1.11 1.13 1.18 1.16 1.17 1.17 1.11	.48 .54 .53 .53 .55 .54 .56	75.0 76.4 75.4 76.7 76.1 75.7 76.2 74.7 75.5 75.1	9.3 9.3 9.0 9.4 9.3 9.4 9.2 9.6 9.2 8.9	(cN/tex) 12.6 12.4 13.8 11.8 12.3 13.3 12.6 12.9 12.7 13.8
Deltapine 55 McNair 220 Deltapine 26 McNair 3033 McNair 3033 Deltapine 61 Coker 304 Coker 310 Coker 420 Pee Dee 9241	1.14 1.11 1.15 1.11 1.13 1.18 1.16 1.17 1.17 1.11	.48 .54 .53 .53 .55 .54 .56 .51	75.0 76.4 75.4 76.7 76.1 75.7 76.2 74.7 75.5 75.1	9.3 9.3 9.0 9.4 9.3 9.4 9.2 9.6 9.2 8.9 9.4	(cN/tex) 12.6 12.4 13.8 11.8 12.3 13.3 12.6 12.9 12.7 13.8 14.4
Deltapine 55 McNair 220 Deltapine 26 McNair 3033 Deltapine 61 Coker 304 Dixie King 3 Coker 420 Pee Dee 9241	1.14 1.11 1.15 1.11 1.13 1.18 1.16 1.17 1.11 1.15 1.18	.48 .54 .53 .53 .55 .54 .56 .51 .52 .54	75.0 76.4 75.4 76.7 76.1 75.7 76.2 74.7 75.5 75.1 75.0 76.4	9.3 9.3 9.0 9.4 9.3 9.4 9.2 9.6 9.2 8.9 9.4	(cN/tex) 12.6 12.4 13.8 11.8 12.3 13.3 12.6 12.9 12.7 13.8 14.4 14.4

Table 8.--Eastern test: Seed data for Milan, Tenn.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 603	18.8	3.59	1.39	11.5	5.5
Deltapine 55	17.5	3.58	1.22	11.3	6.0
McNair 220	17.1	3.52	1.14	11.4	6.0
Deltapine 26	16.8	3.46	1.14	10.3	6.0
Deltapine 16	19.0	3.51	1.09	11.6	6.0
McNair 3033	20.1	3.83	1.42	12.1	5.0
Deltapine 61	18.2	3.52	1.05	10.6	6.0
Coker 304	19.4	3.62	1.18	12.2	5.5
Dixie King 3	18.8	3.48	1.25	12.2	5.5
Coker 310	18.6	3.70	1.12	12.1	5.5
Coker 420	19.1	3.64	1.40	15.5	5.0
Pee Dee 9241	19.8	3.64	1.32	10.2	7.0
Acala 1517-70	19.0	3.48	1.07	12.1	4.5
Paymaster 909	18.2	3.70	•98	11.7	5.0
Stoneville 213	17.8	3.43	1.32	13.2	4.5
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³)	surface area (mm²)	density (g/cm ³)	(percent)	delinted- seed index
Stoneville 603	99.7	112.8	0.977	5.0	9.8
Deltapine 55	95.6	109.8	•966	7.0	9.2
McNair 220	102.2	114.7	.905	21.2	9.2
Deltapine 26	104.2	116.2	.922	12.5	9.6
Deltapine 16	102.6	115.0	•962	9.5	9.9
McNair 3033	92.0	107.0	1.016	2.2	9.4
Deltapine 61	98.8	112.2	•992	10.8	9.8
Coker 304	95.9	110.0	•996	7.0	9.6
Dixie King 3	106.0	117.5	•958	5.2	10.2
Coker 310	97.2	111.0	.978	9.0	9.5
Coker 420	103.3	115.5	•990	5.0	10.2
	111.4	121.4	•946	6.8	10.5
ree Dee 9241					
Pee Dee 9241 Acala 1517-70		122.0	•980	14.8	11.0
Acala 1517-70 Paymaster 909	112.2 125.4	122.0 131.5	.980 .928	14.8 13.0	11.6

Table 9.--Eastern test: Yield, boll, and spinning data for Ames Plantation, Tenn.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 220	896 a	6.46	39.1	10.7	5.05
Deltapine 61	789 b	6.26	40.3	11.1	5.50
Coker 310	782 b	6.35	38.8	11.4	5.00
Coker 304	771 b	6.29	39.9	10.9	5.15
Pee Dee 9241	762 b	5.87	40.1	11.1	5.00
Deltapine 55	758 b	5.68	40.7	10.3	4.95
Deltapine 16	740 bc	6.19	39.0	11.0	4.65
Stoneville 213	738 bc	6.00	38.8	11.1	5.50
Coker 420	733 bc	6.24	38.0	11.6	5.30
McNair 3033	726 bc	5.42	39.4	10.6	5.05
Deltapine 26	705 bc	5.74	41.3	10.6	5.20
Dixie King 3	699 bc	6.83	38.0	11.3	4.65
Stoneville 603	639 c	5.72	40.0	10.6	5.40
Acala 1517-70	477 d	6.24	34.9	12.7	4.35
Paymaster 909	346 e	7.15	37.4	12.4	5.05
	Span length ((inches)	Color	imeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity
			а	b value	(cN/tex)
McNair 220	1.08	0.53	68.2	8.1	11.6
Deltapine 61	1.13	.54	70.1	8.8	10.9
Coker 310	1.12	.49	67.6	9.3	9.4
Coker 304	1.08	.46	68.1	9.3	10.7
Pee Dee 9241	1.08	.53	68.3	8.4	11.9
Deltapine 55	1.05	.45	69.0	9.5	9.2
Deltapine 16	1.12	.51	68.6	9.2	10.0
Stoneville 213	1.04	.47	65.9	9.0	9.0
Coker 420	1.12	.52	66.0	9.4	10.6
McNair 3033	1.08	.48	67.5	8.5	10.6
Deltapine 26	1.08	.51	64.9	8.7	8.3
Dixie King 3	1.06	.51	67.0	8.4	10.5
Stoneville 603	1.06	.49	65.2	8.5	9.4
Acala 1517-70	1.10	.49	68.5	9.3	12.5
Paymaster 909	. 94	.45	65.0	9.0	8.5

Table 10.--Eastern test: Seed data for Ames Plantation, Tenn.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	20.5	3.35	1.10	10.6	6.0
Deltapine 61	19.6	3.36	1.12	12.2	6.5
Coker 310	20.1	3.50	104	13.8	5.0
Coker 304	20.5	3.58	1.08	12.5	4.5
Pee Dee 9241	22.0	3.46	1.32	9.5	7.0
Deltapine 55	19.2	3.45	1.22	12.8	6.0
Deltapine 16	20.0	3.38	1.06	12.9	6.0
Stoneville 213	18.6	3.36	1.32	14.8	5.0
Coker 420	20.6	3.43	1.26	15.3	5.0
McNair 3033	22.0	3.66	1.20	11.0	5.5
Deltapine 26	16.9	3.41	1.04	11.3	6.0
Dixie King 3	20.2	3.31	1.16	12.4	5.5
Stoneville 603	19.0	3.40	1.32	12.0	6.0
Acala 1517-70	20.6	3.38	•85	11.9	5.5
Paymaster 909	19.4	3.53	.92	11.7	6.5
	Seed volume	Seed surface	Seed density	Floaters (percent)	Acid- delinted-
	(mm ³)	area (mm ²)	(g/cm ³)	(percent)	seed index
McNair 220	98.0	111.5	1.008	3.0	9.9
Deltapine 61	95.3	109.5	1.001	2.2	9.5
Coker 310	97.4	111.1	1.026	2.8	10.0
Coker 304	93.6	108.2	1.041	2.5	9.8
Pee Dee 9241	100.4	113.4	1.016	4.8	10.2
Deltapine 55	89.6	105.0	.992	6.8	9.0
Deltapine 16	97.6	111.2	1.008	4.0	9.8
Stoneville 213	96.2	110.2	•994	4.8	9.6
Coker 420	96.3	110.2	1.028	2.5	9.9
McNair 3033	88.7	104.4	1.082	1.5	9.6
Deltapine 26	97.5	111.2	•950	7.5	10.4
-	98.1	112.4	1.018	2.2	10.1
Dixie King 3			1.044	4.0	9.7
Dixie King 3 Stoneville 603	92.4	107.3	1.0077		
Stoneville 603 Acala 1517-70	92.4 109.6	107.3 120.2	1.022	5.8	11.2

Table 11.--Eastern test: Yield, boll, and spinning data for Athens, Ga.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	807 a	5.54	39.4	11.7	5.70
Coker 420	791 a	5.10	38.0	11.9	5.45
Deltapine 26	775 a	5.19	38.1	11.7	5.45
Dixie King 3	753 ab	5.72	37.8	12.3	5.40
Deltapine 55	751 ab	4.99	41.3	11.2	5.45
Deltapine 61	744 ab	5.19	37.3	12.6	5.80
McNair 3033	739 ab	4.09	40.1	11.6	5.65
Deltapine 16	734 ab	5.49	39.3	12.3	5.60
Coker 304	728 ab	5.27	40.8	11.5	5.55
McNair 220	719 ab	5.46	40.3	11.4	5.50
Pee Dee 9241	710 ab	4.76	39.0	12.2	5.35
Coker 310	702 ab	6.30	40.6	11.8	5.70
Acala 1517-70	624 bc	5.65	35.9	13.3	5.05
Paymaster 909	549 c	6.24	37.8	13.9	5.65
Stoneville 603	397 d	4.44	38.4	12.2	5.60
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity
				b value	(cN/tex)
Stoneville 213	1.13	0.57	73.9	10.8	11.8
Coker 420	1.13	.57	73.3	10.3	12.6
Deltapine 26	1.15	.59	73.6	8.6	12.8
Dixie King 3	1.06	.52	72.4	8.9	12.7
Deltapine 55	1.14	.56	72.7	9.6	12.5
Deltapine 61	1.16	.60	71.8	10.7	12.1
McNair 3033	1.13	.57	74.2	9.8	12.0
Deltapine 16	1.17	.59	75.2	9.6	12.0
Coker 304	1.11	.55	73.1	10.5	12.1
McNair 220	1.10	.55	74.9	9.8	12.9
Pee Dee 924!	1.08	.56	74.3	8.6	13.7
	1.14	.56	71.1	10.5	12.6
	1.14				
Coker 310		.61	72.8	8.8	15.6
Coker 310 Acala 1517-70 Paymaster 909	1.20		72.8 73.0	8.8 8.8	15.6 10.7

Table 12.--Eastern test: Seed data for Athens, Ga.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.8	3.68	1.19	14.4	6.0
Coker 420	20.2	3.88	1.26	15.8	4.0
Deltapine 26	18.2	3.80	1.14	11.5	6.0
Dixie King 3	18.9	3.68	1.22	13.6	6.0
Deltapine 55	18.7	3.82	1.12	12.1	6.0
Deltapine 61	19.6	3.71	1.12	11.8	6.0
McNair 3033	21.0	4.14	1.16	12.0	5.0
Deltapine 16	20.0	3.68	1.04	11.5	6.5
Coker 304	20.0	3.76	1.14	12.7	5.5
McNair 220	19.8	3.86	1.02	11.3	6.0
Pee Dee 9241	20.3	3.90	1.28	10.4	7.0
Coker 310	19.7	3.80	1.10	12.4	6.0
Acala 1517-70	20.4	3.64	1.06	12.8	4.0
Paymaster 909	18.9	2.74	1.00	13.1	6.0
Stoneville 603	18.6	3.86	1.19	11.7	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	88.7	104.2	1.078	6.8	9.5
Coker 420	98.1	111.6	1.073	2.0	10.6
Deltapine 26	99.4	112.6	1.030	1.2	10.2
Dixie King 3	96.2	110.1	1.083	2.8	10.4
Deltapine 55	89.8	105.2	1.060	3.2	9.5
Deltapine 61	98.4	111.8	1.066	3.8	10.5
McNair 3033	91.8	106.8	1.133	1.5	10.4
Deltapine 16	102.4	114.8	1.056	3.2	10.8
Coker 304	90.6	105.9	1.080	5.2	9.8
McNair 220	91.8	106.8	1.082	1.8	9.9
Pee Dee 9241	105.6	117.2	1.054	3.0	11.1
Coker 310	97.9	111.4	1.070	2.0	10.5
Acala 1517-70	116.0	124.8	1.058	3.2	12.3
Paymaster 909	104.4	115.4	1.023	7.2	12.4
Stoneville 603	95.6	109.7	1.076	3.5	10.3

Table 13.--Eastern test: Yield, boll, and spinning data for Jackson, Tenn.

ariety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
cNair 220	763 a	5.96	34.0	10.7	4.50
cNair 3033	759 ab	5.09	34.7	10.8	4.55
toneville 213	737 ab	5.48	36.2	10.3	4.85
oker 310	735 ab	6.35	35.4	10.5	4.35
toneville 603	690 abc	5.49	35.8	10.7	4.85
eltapine 26	673 abc	5.48	38.2	10.3	5.25
eltapine 61	670 abc	5.81	34.5	11.1	4.85
ixie King 3	664 abc	6.28	34.7	10.9	4.25
oker 304	656 bc	5.66	35.4	10.8	4.40
eltapine 16	655 bc	6.22	34.7	10.9	4.75
ee Dee 9241	629 c	5.37	35.3	11.3	4.50
oker 420	619 c	6.05	33.2	11.8	4.15
cala 1517-70	615 c	5.66	33.9	11.3	4.15
eltapine 55	596 с	5.40	36.8	10.0	4.60
aymaster 909	455 d	6.71	36.0	11.5	4.55
	Span length (inches)	Color	rimeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity
			a	b value	(cN/tex)
cNair 220	1.13	0.54	75.9	9.5	12.2
cNair 3033	1.15	.55	74.5	9.5	13.3
toneville 213	1.10	.51	73.6	11.2	11.8
oker 310	1.17	.54	74.1	10.8	13.6
toneville 603	1.11	.53	75.7	9.9	12.3
eltapine 26	1.14	.53	75.0	11.2	13.1
-					
eltapine 61	1.15	.53	75.1	11.1	13.1
eltapine 61 ixie King 3	1.15 1.11	.53 .51	75.1 74.2	11.1 10.7	13.1 12.5
ixie King 3	1.11	.51	75.1 74.2 75.1	10.7	13.1 12.5 11.0
ixie King 3 oker 304			74.2		12.5
ixie King 3 oker 304 eltapine 16	1.11 1.17	.51 .53	74.2 75.1	10.7 11.4	12.5 11.0
ixie King 3 oker 304	1.11 1.17 1.17	.51 .53 .52	74.2 75.1 75.5	10.7 11.4 10.8	12.5 11.0 12.5
ixie King 3 oker 304 eltapine 16 ee Dee 9241 oker 420	1.11 1.17 1.17 1.15 1.23	.51 .53 .52 .57 .56	74.2 75.1 75.5 76.6 75.2	10.7 11.4 10.8 9.4 11.1	12.5 11.0 12.5 14.1 14.6
ixie King 3 oker 304 eltapine 16 ee Dee 9241	1.11 1.17 1.17 1.15	.51 .53 .52 .57	74.2 75.1 75.5 76.6	10.7 11.4 10.8 9.4	12.5 11.0 12.5 14.1

Table 14.--Eastern test: Seed data for Jackson, Tenn.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 220	17.7	3.82	0.86	12.0	5.5
McNair 3033	19.9	4.01	1.04	12.5	4.5
Stoneville 213	16.2	3.72	•96	14.5	4.5
Coker 310	17.9	3.81	•98	13.2	4.0
Stoneville 603	16.8	3.73	1.11	13.0	4.5
Deltapine 26	15.6	3.59	•90	10.9	6.0
Deltapine 61	17.4	3.66	.86	13.0	5.5
Dixie King 3	17.7	3.58	•94	13.2	5.0
Coker 304	18.2	4.00	•88	12.3	5.0
Deltapine 16	18.0	3.56	•90	11.6	5.5
Pee Dee 9241	19.0	3.78	•96	11.3	6.0
Coker 420	18.3	3.76	1.14	17.0	2.5
Acala 1517-70	20.0	3.53	•96	13.7	5.0
Deltapine 55	17.4	3.67	1.00	13.2	5.5
Paymaster 909	16.5	3.70	.78	12.4	5.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 220	96.8	110.6	1.018	5.8	9.8
McNair 3033	86.2	102.3	1.128	4.0	9.7
Stoneville 213	90.6	105.8	1.012	6.2	9.2
Coker 310	86.2	102.4	1.108	5.8	9.6
Stoneville 603	91.0	106.2	1.027	7.8	9.4
Deltapine 26	99.4	112.6	•964	12.2	9.6
Deltapine 61	98.0	111.5	1.006	10.2	9.8
Dixie King 3	92.5	107.3	1.036	8.5	9.6
Coker 304	87.8	103.6	1.078	10.0	9.4
Deltapine 16	103.0	115.2	1.024	5.2	10.5
Pee Dee 9241	104.1	116.0	1.026	6.2	10.6
Coker 420	95.2	109.4	1.037	9.2	9.9
Acala 1517-70	96.9	110.7	1.081	10.0	10.5
Deltapine 55	90.2	105.4	1.028	5.2	9.2

Table 15.--Eastern test: Yield, boll, and spinning data for Tifton, Ga.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 55	609 a	4.94	43.7		5.30
Deltapine 26	593 ab	4.86	44.5		5.75
McNair 3033	584 ab	4.81	41.9		5.60
Coker 310	564 ab	5.13	42.4		5.35
Coker 304	554 abc	5.06	42.4		5.45
McNair 220	543 abcd	5.30	41.9		5.60
Stoneville 213	543 abcd	5.13	41.3		5.70
Stoneville 603	532 abcd	4.88	41.8		5.50
Deltapine 61	521 bcd	5.06	43.4		5.85
Deltapine 16	478 cd	5.61	41.7	S-1 mas who	5.65
Coker 420	473 cd	4.96	39.7		5.35
Pee Dee 9241	462 d	4.34	41.2	spin date aggs	5.15
Dixie King 3	363 e	5.21	40.5		5.00
Acala 1517-70	255 f	4.94	36.0		4.85
Paymaster 909	215 f	3.77	37.9		5.35
	Span length (inches)		imeter	Yarn
	2.5%	50%	R_d	Hunter's	tenacity
			α 	b value	(cN/tex)
Deltapine 55	1.11	0.52	72.2	8.8	11.9
Deltapine 26	1.07	.52	71.0	8.6	11.2
McNair 3033	1.11	.51	69.2	8.3	11.6
MCNall JUJJ	T + T T	• 31	09.2	• • •	
	1.12	.53	69.4	8.3	11.6
Coker 310					
Coker 310	1.12	.53	69.4	8.3	11.6
Coker 310 Coker 304 McNair 220	1.12 1.11	.53 .51	69.4 67.9	8.3 8.3	11.6 11.2
Coker 310 Coker 304 McNair 220 Stoneville 213	1.12 1.11 1.05	.53 .51 .48	69.4 67.9 67.4	8.3 8.3 8.5	11.6 11.2 10.5
Coker 310	1.12 1.11 1.05 1.08	.53 .51 .48 .52	69.4 67.9 67.4 71.5	8.3 8.3 8.5 8.9	11.6 11.2 10.5 11.0
Coker 310 Coker 304 McNair 220 Stoneville 213 Stoneville 603 Deltapine 61	1.12 1.11 1.05 1.08 1.07	.53 .51 .48 .52	69.4 67.9 67.4 71.5 69.1	8.3 8.3 8.5 8.9 7.9	11.6 11.2 10.5 11.0 11.3
Coker 310 Coker 304 McNair 220 Stoneville 213 Stoneville 603 Deltapine 61 Deltapine 16	1.12 1.11 1.05 1.08 1.07 1.05	.53 .51 .48 .52 .50	69.4 67.9 67.4 71.5 69.1 72.0	8.3 8.3 8.5 8.9 7.9 8.8	11.6 11.2 10.5 11.0 11.3
Coker 310	1.12 1.11 1.05 1.08 1.07 1.05 1.08	.53 .51 .48 .52 .50 .51	69.4 67.9 67.4 71.5 69.1 72.0 71.4	8.3 8.3 8.5 8.9 7.9 8.8	11.6 11.2 10.5 11.0 11.3 10.7
Coker 310	1.12 1.11 1.05 1.08 1.07 1.05 1.08 1.09	.53 .51 .48 .52 .50 .51	69.4 67.9 67.4 71.5 69.1 72.0 71.4 69.1	8.3 8.3 8.5 8.9 7.9 8.8 8.2	11.6 11.2 10.5 11.0 11.3 10.7 10.9 11.5
Coker 310	1.12 1.11 1.05 1.08 1.07 1.05 1.08 1.09	.53 .51 .48 .52 .50 .51 .50	69.4 67.9 67.4 71.5 69.1 72.0 71.4 69.1 68.9	8.3 8.3 8.5 8.9 7.9 8.8 8.2 8.2	11.6 11.2 10.5 11.0 11.3 10.7 10.9 11.5

Table 16.--Eastern test: Seed data for Tifton, Ga.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 5.5	20.4	3.22	1.36	10.5	6.0
Deltapine 26	18.6	3.32	1.21	9.4	7.0
McNair 3033	23.8	3.37	1.44	11.8	5.5
Coker 310	20.6	3.48	1.20	12.8	6.0
Coker 304	21.4	3.49	1.21	12.4	5.5
McNair 220	21.2	3.35	1.18	10.9	5.5
Stoneville 213	19.5	3.36	1.46	12.4	5.0
Stoneville 603	20.2	3.38	1.53	10.2	6.0
Deltapine 61	20.9	3.10	1.22	10.0	6.0
Deltapine 16	21.9	3.22	1.36	10.9	6.5
Coker 420	21.4	3.46	1.37	15.0	4.0
Pee Dee 9241	22.9	3.26	1.34	9.3	6.0
Dixie King 3	20.1	3.30	1.24	12.6	5.5
Acala 1517-70	21.9	3.30	1.18	12.0	5.0
Paymaster 909	20.0	3.37	1.06	11.9	5.5
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³)	surface area (mm ²)	density (g/cm ³)	(percent)	delinted- seed index
Deltapine 55	73.8	92.4	1.140	2.0	8.4
Deltapine 26	85.0	101.4	1.081	3.8	9.2
McNair 3033	73.4	92.0	1.234	1.8	9.0
Coker 310	81.8	98.8	1.118	8.0	9.1
Coker 304	79.0	96.6	1.140	5.8	9.0
McNair 220	86.4	102.6	1.084	6.2	9.4
Stoneville 213	81.1	98.2	1.135	2.2	9.2
Stoneville 603	78.6	96.3	1.152	3.0	9.1
Deltapine 61	78.1	95.9	1.132	4.0	8.8
Deltapine 16	82.1	99.1	1.120	4.2	9.2
Coker 420	85.0	101.4	1.140	3.0	9.7
Pee Dee 9241	87.4	103.2	1.122	4.8	9.8
	90.5	105.8	1.080	8.2	9.8
Dixie King 3	90.5	10310			
Dixie King 3 Acala 1517-70	104.8	116.6	1.087	5.2	11.4

Table 17.--Eastern test: Yield, boll, and spinning for Crossville, Ala.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3033	493 a	6.02	42.9	10.7	5.00
McNair 220	485 a	5.48	43.3	10.2	5.25
Coker 420	480 a	4.95	42.6	10.3	4.95
Deltapine 61	459 ab	5.20	44.1	9.9	5.40
Coker 310	416 bc	6.29	42.1	10.1	5.10
Coker 304	384 cd	5.40	43.2	9.9	4.85
Deltapine 55	379 cd	6.02	45.6	9.9	5.00
Deltapine 16	374 cd	5.53	41.7	11.7	5.25
Pee Dee 9241	370 cd	5.28	43.2	10.3	5.25
Stoneville 603	368 cd	6.21	45.0	10.8	5.10
Stoneville 213	341 d	5.78	40.9	11.1	5.35
Dixie King 3	336 d	5.81	41.7	10.3	5.55
Deltapine 26	321 de	5.97	39.9	11.0	4.80
Acala 1517-70	268 ef	5.46	41.2	10.9	5.10
Paymaster 909	233 f	5.26	43.4	10.2	5.40
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	\overline{R}_{d}	Hunter's b value	tenacity (cN/tex)
McNair 3033	1.11	0.50	59.6	6.8	10.6
McNair 220	1.10	.48	59.2	6.3	10.0
Coker 420	1.07	.47	59.6	6.5	11.1
Deltapine 61	1.12	.52	60.6	6.8	10.9
Coker 310	1.10	.46	54.7	6.5	8.9
Coker 304	1.08	.45	60.7	5.8	10.4
Deltapine 55	1.14	.50	55.6	6.5	9.9
Deltapine 16	1.02	.45	55.8	6.2	9.8
Pee Dee 9241	1.10	.48	60.1	6.4	10.1
Stoneville 603	1.04	.46	58.0	6.5	9.0
Stoneville 213	1.04	.46	59.9	6.6	9.3
Dixie King 3	1.10	.48	60.1	6.1	9.4
Deltapine 26	1.04	.45	61.3	6.8	8.8
Acala 1517-70	1.10	.47	60.6	6.3	10.2
Paymaster 909	1.11	.47	60.8	5.7	10.4

Table 18.--Eastern test: Seed data for Crossville, Ala.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
McNair 3033	19.8	3.68	1.18	9.7	4.0
McNair 220	18.8	3.54	1.18	10.6	4.5
Coker 420	21.2	3.68	1.06	7.4	5.5
Deltapine 61	19.7	3.70	1.40	8.6	5.5
Coker 310	18.3	3.67	•92	10.2	5.0
Coker .304	18.7	3.50	1.07	7.5	5.5
Deltapine 55	19.6	3.61	1.04	8.2	5.0
Deltapine 16	19.4	3.78	• 94	10.7	4.5
Pee Dee 9241	19.4	3.61	1.22	11.7	4.0
Stoneville 603	19.9	3.64	1.14	7.9	6.0
Stoneville 213	19.7	3.38	1.16	8.0	4.0
Dixie King 3	17.9	3.49	1.18	9.7	5.0
Deltapine 26	20.0	3.52	1.21	8.5	4.5
Acala 1517-70	19.6	3.60	•95	9.4	5.0
Paymaster 909	18.8	3.50	•97	7.7	5.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
McNair 3033	96.9	110.7	1.004	5.8	9.2
McNair 220	97.3	111.0	•970	7.8	8.9
Coker 420	103.9	116.0	•944	9.2	9.3
Deltapine 61	97.8	111.3	1.003	2.5	8.9
Coker 310	99.9	112.9	•974	5.8	9.1
Coker 304	97.4	111.2	.980	5.8	8.9
Deltapine 55	98.4	111.8	.961	7.5	9.0
Deltapine 16	113.2	122.7	•964	10.0	10.3
Pee Dee 9241	98.2	111.8	.989	5.8	9.1
Stoneville 603	106.1	117.4	1.010	4.2	10.0
Stoneville 213	105.2	116.9	.988	5.2	9.8
Dixie King 3	100.3	113.2	•976	5.2	9.1
Deltapine 26	104.2	116.2	.988	4.2	9.7
Acala 1517-70	104.2	115.9	1.010	3.8	9.9
Paymaster 909	99.0	112.3	.954	6.2	8.9

Table 19.--Eastern test: Yield, boll, and spinning data for Rocky Mount, N.C.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	425 a	4.88	38.6	9.8	5.65
McNair 220	412 ab	5.07	39.3	9.5	5.35
Deltapine 26	398 ab	4.83	40.9	10.1	5.85
Coker 420	390 abc	4.91	38.2	10.5	5.50
Deltapine 61	376 abcd	5.01	37.7	10.1	5.90
Coker 310	368 bcd	5.27	38.7	10.0	5.50
Coker 304	363 bcd	4.82	39.9	9.7	5.55
Stoneville 603	363 bcd	4.69	39.2	9.7	5.90
McNair 3033	358 bcd	4.14	38.7	10.0	5.65
Pee Dee 9241	340 cde	4.74	38.2	10.2	5.10
Deltapine 55	329 de	4.59	41.0	9.1	5.55
Deltapine 16	326 de	5.25	37.8	10.1	5.65
Dixie King 3	298 ef	5.39	38.3	9.7	5.35
Acala 1517-70	258 f	5.45	35.0	11.3	4.95
Paymaster 909	188 g	6.17	37.8	11.3	5.65
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity (cN/tox)
				b value	(cN/tex)
Stoneville 213	1.00	0.47	72.1	8.6	11.5
Stoneville 213 McNair 220		0.47			
McNair 220	1.00	.48	72.1	8.6	11.5
McNair 220 Deltapine 26			72.1 72.4	8.6 8.5	11.5 12.0
McNair 220 Deltapine 26 Coker 420	1.00 1.03 1.08	.48 .50 .54	72.1 72.4 72.7 71.7	8.6 8.5 8.6	11.5 12.0 11.9
McNair 220 Deltapine 26 Coker 420 Deltapine 61	1.00 1.03	.48 .50	72.1 72.4 72.7	8.6 8.5 8.6 8.6	11.5 12.0 11.9 13.0
McNair 220 Deltapine 26 Coker 420 Deltapine 61 Coker 310 ,	1.00 1.03 1.08 1.01 1.06	.48 .50 .54 .49	72.1 72.4 72.7 71.7 71.9 70.5	8.6 8.5 8.6 8.6 8.6	11.5 12.0 11.9 13.0 11.6
McNair 220 Deltapine 26 Coker 420 Deltapine 61	1.00 1.03 1.08 1.01	.48 .50 .54 .49 .50	72.1 72.4 72.7 71.7 71.9	8.6 8.5 8.6 8.6 9.0	11.5 12.0 11.9 13.0 11.6 12.0
McNair 220 Deltapine 26 Coker 420 Deltapine 61 Coker 310 , Coker 304 Stoneville 603	1.00 1.03 1.08 1.01 1.06 1.05	.48 .50 .54 .49 .50	72.1 72.4 72.7 71.7 71.9 70.5 71.1 71.3	8.6 8.5 8.6 8.6 9.0 8.8	11.5 12.0 11.9 13.0 11.6 12.0 11.8
McNair 220 Deltapine 26 Coker 420 Deltapine 61 Coker 310 , Coker 304	1.00 1.03 1.08 1.01 1.06 1.05 1.03	.48 .50 .54 .49 .50	72.1 72.4 72.7 71.7 71.9 70.5 71.1	8.6 8.5 8.6 8.6 9.0 8.8	11.5 12.0 11.9 13.0 11.6 12.0 11.8 11.4
McNair 220 Deltapine 26 Coker 420 Deltapine 61 Coker 310 , Coker 304 Stoneville 603 McNair 3033 Pee Dee 9241	1.00 1.03 1.08 1.01 1.06 1.05 1.03	.48 .50 .54 .49 .50 .51	72.1 72.4 72.7 71.7 71.9 70.5 71.1 71.3 71.6	8.6 8.5 8.6 8.6 9.0 8.8 8.4	11.5 12.0 11.9 13.0 11.6 12.0 11.8 11.4
McNair 220 Deltapine 26 Coker 420 Deltapine 61 Coker 310 , Coker 304 Stoneville 603 McNair 3033 Pee Dee 9241 Deltapine 55	1.00 1.03 1.08 1.01 1.06 1.05 1.03 1.07	.48 .50 .54 .49 .50 .51 .50	72.1 72.4 72.7 71.7 71.9 70.5 71.1 71.3 71.6 73.6	8.6 8.5 8.6 8.6 9.0 8.8 8.4 8.7 8.3	11.5 12.0 11.9 13.0 11.6 12.0 11.8 11.4 12.6 13.9
McNair 220 Deltapine 26 Coker 420 Deltapine 61 Coker 310 , Coker 304 Stoneville 603 McNair 3033 Pee Dee 9241 Deltapine 55 Deltapine 16	1.00 1.03 1.08 1.01 1.06 1.05 1.03 1.07 1.07	.48 .50 .54 .49 .50 .51 .50 .52	72.1 72.4 72.7 71.7 71.9 70.5 71.1 71.3 71.6 73.6 71.0	8.6 8.5 8.6 8.6 9.0 8.8 8.4 8.7 8.3	11.5 12.0 11.9 13.0 11.6 12.0 11.8 11.4 12.6 13.9 11.4
McNair 220 Deltapine 26 Coker 420 Deltapine 61 Coker 310 , Coker 304 Stoneville 603 McNair 3033 Pee Dee 9241 Deltapine 55	1.00 1.03 1.08 1.01 1.06 1.05 1.03 1.07 1.07 .99 1.05	.48 .50 .54 .49 .50 .51 .50 .52 .52 .48	72.1 72.4 72.7 71.7 71.9 70.5 71.1 71.3 71.6 73.6 71.0 74.1	8.6 8.5 8.6 8.6 9.0 8.8 8.4 8.7 8.3 8.0 8.2	11.5 12.0 11.9 13.0 11.6 12.0 11.8 11.4 12.6 13.9 11.4 11.5

Table 20.--Eastern test: Seed data for Rocky Mount, N.C.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 213	17.8	3.78	1.02	11.6	6.0
McNair 220	18.8	3.88	•84	9.0	7.0
Deltapine 26	18.3	3.80	•90	7.5	7.5
Coker 420	19.9	3.98	1.04	12.0	6.0
Deltapine 61	19.2	3.75	•97	9.0	6.5
Coker 310	19.6	3.98	•86	11.0	6.5
Coker 304	19.8	4.08	•90	9.6	6.5
Stoneville 603	17.9	3.79	1.00	9.3	7.0
McNair 3033	20.6	4.14	1.09	9.6	6.5
Pee Dee 9241	21.4	4.01	1.05	.7.6	7.0
Deltapine 55	18.5	3.80	•88	8.2	7.0
Deltapine 16	19.9	3.70	• 90	8.4	7.5
Dixie King 3	19.2	3.82	.88	11.2	6.0
Acala 1517-70	19.8	3.64	• 94	10.7	6.0
Paymaster 909	17.8	3.75	.76	10.7	6.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 213	83.5	100.2	1.038	3.0	8.7
McNair 220	83.0	99.8	1.072	2.2	8.9
Deltapine 26	85.4	101.8	1.049	2.5	9.0
Coker 420	83.4	100.2	1.091	4.0	9.1
Deltapine 61	83.9	100.6	1.091	3.5	9.2
Coker 310	81.2	98.4	1.105	2.2	9.0
Coker 304	79.4	97.0	1.108	3.2	8.8
Stoneville 603	82.7	99.6	1.078	3.2	8.9
McNair 3033	79.4	97.0	1.139	2.5	9.0
Pee Dee 9241	90.6	105.9	1.069	2.2	9.7
Deltapine 55	73.6	91.2	1.118	2.2	8.2
Deltapine 16	89.8	105.2	1.072	1.2	9.6
Dixie King 3	83.4	100.2	1.094	1.2	9.1
Acala 1517-70	91.0	106.2	1.088	4.0	9.9
Paymaster 909	107.3	118.5	.987	5.2	10.6

Table 21.--Eastern test: Yield, boll, and spinning data for Auburn, Ala.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 304 :	duck dash dash	5.79	37.4	10.5	5.50
Coker 420		5.58	38.5	11.8	5.35
Deltapine 16		5.31	40.6	10.4	5.50
Coker 310		5.30	39.8	10.6	5.05
Deltapine 61		5.27	41.4	10.8	5.75
Paymaster 909		5.25	40.2	12.2	5.00
Stoneville 603		5.21	45.4	10.2	5.05
Acala 1517-70		5.09	37.1	11.0	4.25
Deltapine 55		5.08	42.5	9.9	5.15
McNair 220		5.05	40.7	10.5	5.05
Dixie King 3		4.98	43.3	10.5	4.80
Stoneville 213		4.90	40.7	9.7	5.10
Pee Dee 9241		4.90	38.7	11.8	5.30
McNair 3033		4.85	40.4	11.3	5.40
Deltapine 26		4.82	40.6	9.8	5.55
	Span length (inches)			imeter	Yarn
	2.5%	50%	$\frac{R}{d}$	Hunter's b value	tenacity (cN/tex)
Coker 304	1.06	0.49	64.9	8.7	10.5
Coker 420	1.11	.52	66.2	8.6	12.2
Deltapine 16	1.05	.46	63.9	9.6	9.9
Coker 310	1.06	.49	63.1	9.4	10.1
Deltapine 61	1.07	.52	66.6	9.1	10.4
Paymaster 909	.92	.43	63.6	9.6	9.6
C4 11 - (07					
Stoneville 603	1.06	.50	65.2	8.4	10.5
Acala 1517-70	1.06 1.11	.50 .51	65.2 66.8	8.4 8.8	10.5 13.6
Acala 1517-70	1.11	.51	66.8	8.8	13.6
Acala 1517-70 Deltapine 55	1.11 1.06	.51 .49	66.8 64.9	8.8 8.4	13.6 10.4
Acala 1517-70 Deltapine 55 McNair 220	1.11 1.06 1.03	.51 .49 .47	66.8 64.9 62.6	8.8 8.4 8.7	13.6 10.4 11.0
Acala 1517-70 Deltapine 55 McNair 220 Dixie King 3	1.11 1.06 1.03 1.01	.51 .49 .47 .45	66.8 64.9 62.6 64.5	8.8 8.4 8.7 9.3	13.6 10.4 11.0 10.5
Acala 1517-70 Deltapine 55 McNair 220 Dixie King 3 Stoneville 213	1.11 1.06 1.03 1.01 1.06	.51 .49 .47 .45	66.8 64.9 62.6 64.5 63.0	8.8 8.4 8.7 9.3 9.3	13.6 10.4 11.0 10.5 10.1

Table 22.--Eastern test: Seed data for Auburn, Ala.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 304	19.4	4.00	0.71	7.7	5.0
Coker 420	19.5	3.94	•95	13.0	3.5
Deltapine 16	18.4	3.62	•68	6.6	6.0
Coker 310	18.4	3.86	•79	8.4	4.0
Deltapine 61	19.0	3.74	•68	5.9	5.5
Paymaster 909	16.2	3.74	•62	9.1	5.0
Stoneville 603	18.2	3.81	•92	5.8	5.0
Acala 1517-70	18.6	3.66	•76	9.4	4.0
Deltapine 55	17.5	3.70	•78	6.8	6.0
McNair 220	18.2	3.92	•71	6.7	5.5
Dixie King 3	17.3	3.67	•72	7.6	5.0
Stoneville 213	15.0	3.54	•70	9.8	4.0
Pee Dee 9241	20.0	3.98	.82	4.9	5.5
McNair 3033	21.1	4.12	•86	8.8	4.5
Deltapine 26	16.8	3.70	.78	5.2	6.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Coker 304	92.2	107.2	1.026	4.0	9.5
Coker 420	99.0	112.3	1.010	6.2	10.0
Deltapine 16	98.0	111.6	•946	11.0	9.3
Coker 310	93.4	108.0	1.000	5.8	9.3
Deltapine 61	97.1	110.8	.979	10.2	9.5
Paymaster 909	119.8	127.6	.882	24.2	10.6
Stoneville 603	94.2	108.6	.991	8.2	9.3
Acala 1517-70	108.6	119.4	•990	8.8	10.7
Deltapine 55	90.2	105.5	.964.	10.2	8.7
McNair 220	96.2	110.2	.992	6.5	9.5
Dixie King 3	94.6	108.8	1.000	9.5	9.4
Stoneville 213	97.6	111.2	•909	28.8	8.9
Pee Dee 9241	103.2	115.4	1.013	6.5	10.5
McNair 3033	86.8	102.9	1.094	3.0	9.5
Deltapine 26	98.7	112.0	.911	17.2	9.0

DELTA REGIONAL COTTON VARIETY TEST

Table 23.--Delta test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 55	801 a	5.13 d	39.6 a	10.3 e	4.83 de
Coker 310	798 a	5.94 Ъ	37.3 bcd	11.8 c	4.80 e
Stoneville 731N	779 ab	5.12 d	37.9 b	11.4 cd	5.16 ab
Stoneville 256	767 ab	5.48 cd	37.3 bcd	11.2 d	5.19 a
Stoneville 213	760 ab	5.41 cd	37.6 bc	11.3 cd	5.13 ab
Deltapine 16	735 ab	5.65 bc	36.8 d	11.6 cd	4.95 cd
Brycot 4	702 ab	5.48 cd	37.0 cd	11.3 cd	5.05 bc
Delcot 277	680 b	6.00 b	36.6 d	12.7 b	4.48 f
Acala 1517-70	520 c	5.40 cd	35.3 e	13.0 b	4.52 f
Paymaster 909	424 c	6.49 a	35.4 e	14.0 a	5.21 a
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Deltapine 55	1.15 cd	0.52 cd	70.9 ab	8.4 bcd	12.4 d
Coker 310	1.20 a	.55 a	69.1 de	8.4 bcd	12.8 c
Stoneville 731N	1.12 e	.51 de	70.2 bcd	8.2 d	11.7 e
Stoneville 256	1.14 de	.53 cd	69.8 bcd	8.4 bcd	11.7 e
Stoneville 213	1.13 de	.53 bc	70.4 bc	8.4 bc	11.5 e
Deltapine 16	1.16 bc	.53 bc	71.9 a	8.2 cd	12.4 d
Brycot 4	1.13 de	.51 de	69.9 bcd	8.5 bc	11.6 e
Delcot 277	1.17 b	.54 ab	69.4 cde	9.0 a	13.3 b
	1 1 1 1	F.F	70.7 ab	0 6 1	14 6 0
Acala 1517-70	1.17 b	.55 a	/U./ ab	8.6 b	14.6 a

Table 24.--Delta test: Seed data by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 55 Coker 310 Stoneville 731N Stoneville 256 Stoneville 213 Deltapine 16 Brycot 4 Delcot 277 Acala 1517-70 Paymaster 909	17.8 cd 19.2 b 17.8 cd 18.1 c 17.2 e 19.6 a 17.7 d 19.2 b 19.5 ab 17.8 cd	3.64 c 3.72 b 3.64 c 3.58 cde 3.61 cd 3.53 e 3.56 de 3.85 a 3.60 cde 3.75 b	1.15 abc 1.10 cd 1.06 d 1.18 ab 1.12 bcd 1.05 d 1.10 cd 1.20 a .98 e .88 f	11.4 de 12.0 cd 12.5 bc 12.7 b 13.8 a 11.2 e 13.6 a 11.5 de 12.5 bc 11.4 de	5.8 a 5.1 bc 5.2 abc 5.1 bc 4.7 c 5.6 ab 4.8 c 5.2 abc 4.1 d 5.2 abc
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 55 Coker 310 Stoneville 731N Stoneville 256 Stoneville 213 Deltapine 16 Brycot 4 Delcot 277 Acala 1517-70 Paymaster 909	91.8 d' 101.4 c 99.8 c 99.1 c 97.6 c 100.2 c 98.2 c 109.3 b 111.7 b 126.2 a	106.7 d 114.1 c 112.8 c 112.3 c 111.3 c 111.7 c 120.0 b 121.7 b 131.9 a	1.020 abc 1.037 ab .989 c 1.007 bc .995 c 1.035 ab 1.010 bc 1.046 a 1.017 abc .961 d	4.0 bc 2.3 c 6.0 ab 6.9 ab 5.1 abc 3.8 bc 6.5 ab 4.9 abc 7.9 a 6.3 ab	9.4 e 10.5 c 9.9 d 10.0 d 9.7 de 10.4 c 9.9 d 11.4 b 11.4 b 12.1 a

Table 25.--Delta test: Yield, boll, and spinning data by test location

Location	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville, MS St. Joseph, LA	924 a 923 a	5.73 bc 6.15 a	36.0 c 39.1 a	12.0 a 12.2 a	4.54 e 5.22 b
Portageville, MO	751 b	5.98 ab	36.1 c	12.2 a	4.71 cd
Clarkedale, AR	736 bc	5.46 cd	34.4 d		4.67 d
Tunica, MS	708 c	5.26 d	38.0 b	11.3 b	5.19 b
Ridgely, TN	544 d	6.10 a	37.8 b	11.6 b	5.42 a
Rohwer, AR	290 e	4.59 e	38.1 b		4.80 c
	Span length (in 2.5%	iches) 50%	$\frac{\text{Colorin}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Stoneville, MS	1.17 a	0.55 a	74.2 a	8.6 b	13.1 a
St. Joseph, LA	1.15 bc	.54 a	73.4 a	10.2 a	12.2 c
Portageville, MO	1.15 c	.51 cd	67.5 d	8.3 c	11.9 cd
Clarkedale, AR	1.17 ab	.53 b	68.8 c	7.6 d	12.7 b
Tunica, MS	1.09 e	.50 d	65.7 e	7.3 e	12.1 cd
Ridgely, TN	1.14 c	.55 a	70.5 в	10.1 a	12.8 b
Rohwer, AR	1.11 d	.52 bc	70.4 b	7.1 e	11.8 d

Table 26.--Delta test: Seed data by test location

Location	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville, MS St. Joseph, LA Tunica, MS Ridgely, TN	17.4 c 20.0 a 18.0 b 18.2 b	3.63 c 3.42 d 3.84 a 3.70 b	10.7 b 12.0 a 10.1 c 10.5 bc	13.6 a 11.6 b 10.6 c 13.3 a	4.2 c 5.3 b 5.7 a 5.2 b
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville, MS St. Joseph, LA Tunica, MS Ridgely, TN	105.1 a 104.5 a 100.6 b 104.0 a	116.7 a 116.2 a 113.3 b 116.0 a	0.989 b 1.021 a 1.013 a 1.024 a	9.2 a 3.8 b 4.7 b 3.7 b	10.4 b 10.6 a 10.2 c 10.7 a

Table 27.--Delta test: Yield, boll, and spinning data for St. Joseph, La.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 55	1186 a	6.04	41.5	10.7	5.25
Deltapine 16	1107 ab	6.14	40.1	11.3	5.30
Coker 310	1105 ab	6.24	39.6	11.8	5.15
Stoneville 731N	1004 bc	5.75	39.7	11.8	5.60
Brycot 4	1003 bc	6.05	39.0	11.7	5.40
Stoneville 256	930 cd	6.02	38.8	11.6	5.35
Stoneville 213	901 cd	6.20	38.7	12.0	5.40
Delcot 277	838 d	6.38	39.0	13.1	4.70
Acala 1517-70	624 e	5.59	36.8	13.3	4.65
Paymaster 909	533 e	7.11	37.9	14.9	5.40
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	$\overline{R_d}$	Hunter's	tenacity
			а	b value	(cN/tex)
Deltapine 55	1.18	0.55	75.0	9.8	12.5
Deltapine 16	1.19	.56	75.8	9.9	11.7
Coker 310	1.23	.58	72.1	10.2	12.7
Stoneville 731N	1.15	.52	75.1	10.5	11.3
Brycot 4	1.15	.53	73.0	10.7	11.7
Stoneville 256	1.11	.54	73.1	10.1	11.5
Stoneville 213	1.16	.56	73.0	10.4	11.7
Delcot 277	1.18	.57	71.5	10.8	12.9
Acala 1517-70	1.18	.56	73.6	10.1	14.9
Paymaster 909	1.03	.50	71.5	10.2	10.8

Table 28.--Delta test: Seed data for St. Joseph, La.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 55	19.3	3.40	1.30	11.7	5.5
Deltapine 16	21.7	3.21	1.22	11.0	6.0
Coker 310	21.0	3.36	1.20	11.5	5.5
Stoneville 731N	19.2	3.41	1.23	12.2	5.0
Brycot 4	19.3	3.28	1.23	12.8	5.0
Stoneville 256	19.8	3.31	1.33	11.8	5.0
Stoneville 213	19.0	3.41	1.29	13.0	5.0
Delcot 277	20.5	3.75	1.26	10.6	6.0
Acala 1517-70	20.7	3.44	1.00	10.9	5.0
Paymaster 909	19.8	3.64	•99	10.1	5.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 55	89.3	104.8	1.044	3.0	9.3
Deltapine 16	97.6	111.3	1.034	2.3	10.1
Coker 310	95.2	109.4	1.047	1.0	10.0
Stoneville 731N	97.0	110.7	1.021	2.0	9.9
Brycot 4	100.7	113.6	1.007	6.0	10.1
Stoneville 256	99.4	112.6	1.025	5.5	10.2
Stoneville 213	102.5	115.0	•994	4.0	10.2
Delcot 277	107.1	118.3	1.072	3.3	11.5
Acala 1517-70	119.0	126.9	1.005	8.3	12.0
Paymaster 909	137.1	139.5	•961	4.0	13.2

Table 29.--Delta test: Yield, boll, and spinning data for Stoneville, Miss.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 731N	1064 a	5.25	37.3	12.5	4.65
Stoneville 213	1059 a	5.47	36.0	11.4	4.70
Deltapine 55	1054 a	5.24	37.9	10.3	4.40
Coker 310	1013 ab	6.10	36.2	11.9	4.55
Stoneville 256	980 Ъ	5.24	36.8	11.8	4.65
Deltapine 16	973 b	5.92	35.6	11.6	4.60
Delcot 277	954 b	6.39	35.7	13.1	4.25
Brycot 4	892 c	5.31	35.7	11.1	4.50
Acala 1517-70	680 d	5.70	33.5	13.0	4.20
Paymaster 909	567 e	6.70	35.3	14.1	4.90
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
Stoneville 731N	1.15	0.53	74.1	8.3	12.4
Stoneville 213	1.18	.56	73.8	8.2	12.0
Deltapine 55	1.19	.55	74.3	8.4	13.2
Coker 310	1.24	.58	73.7	8.5	13.3
Stoneville 256	1.18	. 54	75.1	8.5	12.2
Deltapine 16	1.20	.56	76.2	8.1	13.1
Delcot 277	1.17	.55	73.2	9.2	13.7
Brycot 4	1.18	.54	74.6	8.7	12.4 -
Aca1a 1517-70	1.23	.59	74.6	9.1	16.4
Paymaster 909	1.03	.53	72.9	8.8	12:6

Table 30.--Delta test: Seed data for Stoneville, Miss.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 731N	17.1	3.62	1.06	13.3	5.0
Stoneville 213	16.3	3.60	1.18	15.4	3.0
Deltapine 55	16.9	3.68	1.09	12.9	5.5
Coker 310	18.6	3.69	1.12	12.9	3.5
Stoneville 256	16.9	3.56	1.12	13.7	5.0
Deltapine 16	18.4	3.56	1.02	13.3	5.0
Delcot 277	18.5	3.81	1.19	12.6	4.5
Brycot 4	16.6	3.57	1.07	14.9	4.0
Acala 1517-70	18.2	3.52	•96	14.7	2.0
Paymaster 909	17.0	3.70	.84	12.1	4.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 731N	99.2	112.5	0.971	10.8	9.7
Stoneville 213	98.6	112.0	•976	9.3	9.6
Deltapine 55	92.1	107.0	1.003	5.8	9.2
Coker 310	106.6	117.9	1.038	2.5	11.1
Stoneville 256	102.1	114.6	.981	10.5	10.0
Deltapine 16	100.9	113.7	1.002	7.0	10.1
Delcot 277	112.6	122.4	1.032	7.0	11.6
Brycot 4	102.1	114.6	.981	10.5	10.0
Acala 1517-70	108.6	119.4	•986	14.8	10.8
Paymaster 909	129.0	133.9	•945	10.8	12.2

Table 31.--Delta test: Yield, boll, and spinning data for Portageville, Mo.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	929 a	5.75	36.8	11.6	4.90
Deltapine 55	917 a	5.40	38.9	10.8	4.80
Stoneville 731N	912 a	5.25	37.9	11.6	5.00
Coker 310	872 a	6.20	36.4	12.4	4.75
Stoneville 256	839 ab	6.35	37.3	11.0	5.05
Brycot 4	734 bc	6.10	35.6	11.6	4.75
Delcot 277	694 c	6.55	35.2	12.8	4.30
Deltapine 16	685 c	5.70	36.2	12.4	4.95
Acala 1517-70	500 c	5.95	33.3	13.6	4.05
Paymaster 909	432 d	6.60	33.8	14.6	4.55
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
Stoneville 213	1.13	0.51	69.0	7.8	10.9
Deltapine 55	1.15	.51	68.8	8.5	11.9
Stoneville 731N	1.14	.52	68.8	8.2	10.9
Coker 310	1.19	.53	66.2	8.3	12.5
Stoneville 256	1.13	.50	66.8	8.7	11.6
Brycot 4	1.14	.50	67.6	8.3	11.6
Delcot 277	1.20	.54	67.0	8.7	12.9
Deltapine 16	1.16	.50	69.2	8.3	11.6
Acala 1517-70	1.18	.52	66.2	8.0	14.2
Paymaster 909	1.11	.49	65.7	8.1	11.5

Table 32.--Delta test: Yield, boll, and spinning data for Tunica, Miss.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 256	924 a	5.13	39.0	10.7	5.50
Deltapine 55	826 ab	4.73	40.9	9.4	5.10
Stoneville 731N	823 ab	4.78	39.3	10.4	5.35
Coker 310	820 ab	5.63	37.6	11.4	5.00
Brycot 4	720 bc	4.75	38.7	11.2	5.45
Deltapine 16	715 bc	5.12	37.7	10.6	5.10
Stoneville 213	652 c	5.01	37.7	10.5	5.35
Delcot 277	649 c	5.60	36.2	12.5	4.60
Acala 1517-70	513 d	5.39	35.2	12.8	4.75
Paymaster 909	440 d	6.47	38.1	13.6	5.70
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_{d}	Hunter's b value	tenacity (cN/tex)
Stoneville 256	1.10	0.51	66.7	7.0	11.1
Deltapine 55	1.07	.48	64.1	7.0	12.1
Stoneville 731N	1.08	.49	65.5	6.8	10.7
Coker 310	1.13	.52	64.7	7.4	12.6
Coker 310 Brycot 4	1.13 1.08	.52 .49	64.7 65.9	7.4 7.2	12.6 10.8
Brycot 4			65.9		
	1.08	.49		7.2	10.8
Brycot 4 Deltapine 16	1.08 1.08	.49 .49	65.9 67.6	7.2 7.1	10.8 11.5
Brycot 4 Deltapine 16 Stoneville 213	1.08 1.08 1.10	.49 .49 .50	65.9 67.6 64.8	7.2 7.1 7.1	10.8 11.5 11.0

Table 33.--Delta test: Seed data for Tunica, Miss.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 256	17.7	3.77	1.13	11.3	5.5
Deltapine 55	17.7	3.76	1.10	8.8	6.5
Stoneville 731N	17.3	3.84	•93	11.2	6.0
Coker 310	18.6	4.05	1.04	9.9	5.5
Brycot 4	17.4	3.77	1.04	12.9	5.5
Deltapine 16	18.9	3.76	•97	8.9	5.5
Stoneville 213	16.8	3.82	•94	11.9	6.0
Delcot 277	19.1	4.03	1.14	10.1	5.5
Acala 1517-70	19.5	3.76	.99	11.1	5.5
Paymaster 909	17.3	3.89	•83	9.7	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 256	95.2	109.4	1.004	7.0	9.6
Deltapine 55	87.7	103.6	1.016	2.3	8.9
Stoneville 731N	95.4	109.6	.980	6.8	9.4
Coker 310	101.8	114.4	1.018	3.8	10.4
Brycot 4	90.3	105.6	1.048	2.5	9.4
Deltapine 16	91.5	116.4	1.074	3.5	9.8
Stoneville 213	93.6	108.2	•998	5.3	9.3
Delcot 277	112.4	122.2	1.007	7.5	11.3
Acala 1517-70	111.9	121.8	1.019	6.3	11.4
Paymaster 909	126.1	132.0	•968	2.0	12.2

Table 34.--Delta test: Yield, boll, and spinning data for Clarkedale, Ark.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 310	873 a	6.28	35.6		4.60
Stoneville 213	803 ab	4.93	35.8		4.85
Delcot 277	785 ab	5.56	34.6		4.10
Deltapine 55	774 ab	5.03	37.1		4.50
Deltapine 16	773 ab	5.71	32.9		4.65
Stoneville 731N	743 abc	5.04	34.3		5.10
Stoneville 256	730 abc	4.95	32.7		5.00
Acala 1517-70	671 bc	4.77	34.3		4.05
Brycot 4	652 bc	6.17	32.4		4.75
Paymaster 909	671 bc 4.77 34.3 bt 4 652 bc 6.17 32.4 ester 909 559 c 6.18 34.6		5.10		
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Coker 310	1.23	0.56	68.0	7.6	13.0
04	1 15		60.4	0 1	11 5
Stoneville 213	1.15	.53	69.4	8.1	11.5
Delcot 277	1.15	.53 .55	69.3	8.4	13.9
Delcot 277					
	1.23	.55	69.3	8.4	13.9
Delcot 277 Deltapine 55	1.23 1.19	.55	69.3 70.6	8.4 7.5	13.9 13.0
Delcot 277 Deltapine 55 Deltapine 16	1.23 1.19 1.21	.55 .53 .54	69.3 70.6 69.0	8.4 7.5 6.6	13.9 13.0 12.2
Delcot 277 Deltapine 55 Deltapine 16 Stoneville 731N	1.23 1.19 1.21 1.14	.55 .53 .54 .51	69.3 70.6 69.0 68.7	8.4 7.5 6.6 7.2	13.9 13.0 12.2 12.1
Delcot 277 Deltapine 55 Deltapine 16 Stoneville 731N Stoneville 256	1.23 1.19 1.21 1.14 1.19	.55 .53 .54 .51	69.3 70.6 69.0 68.7 67.9	8.4 7.5 6.6 7.2 7.7	13.9 13.0 12.2 12.1 12.1

Table 35.--Delta test: Yield, boll, and spinning data for Ridgely, Tenn.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 256	655 a	6.07	39.5	10.9	5.95
Stoneville 213	613 ab	6.09	38.9	11.2	5.70
Stoneville 731N	612 ab	5.79	38.8	11.0	5.80
Brycot 4	592 ab	5.92	38.3	11.2	5.65
Deltapine 16	590 ab	6.50	36.5	12.2	5.05
Coker 310	586 ab	6.39	36.5	11.9	5.05
Delcot 277	575 ab	6.31	37.7	12.2	4.85
Deltapine 55	554 b	5.61	39.2	10.5	5.20
Acala 1517-70	395 c	5.83	36.3	12.3	5.25
Paymaster 909	266 d	6.50	36.2	13.0	5.70
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Stoneville 256	1.15	0.57	70.2	10.2	12.2
Stoneville 213	1.14	.55	70.3	10.4	12.5
Stoneville 731N	1.13	.53	71.2	9.8	12.5
Brycot 4	1.12	. 54	70.3	10.3	11.9
Deltapine 16	1.14	.54	71.2	10.2	15.3
Coker 310	1.18	.53	70.3	10.1	12.8
Delcot 277	1.16	. 57	69.6	10.5	13.6
Deltapine 55	1.13	.53	71.6	10.1	12.5
Acala 1517-70	1.21	.59	73.3	9.8	12.7
Paymaster 909	1.05	.54	67.8	10.2	12.0

Table 36.--Delta test: Seed data for Ridgely, Tenn.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 256	18.1	3.67	1.13	14.1	5.0
Stoneville 213	16.7	3.60	1.06	15.0	5.0
Stoneville 731N	17.5	3.77	1.01	13.2	5.0
Brycot 4	17.8	3.62	1.06	13.9	5.0
Deltapine 16	19.4	3.61	1.00	11.6	6.0
Coker 310	18.8	3.79	1.05	13.5	6.0
Delcot 277	18.9	3.82	1.22	12.9	5.0
Deltapine 55	17.5	3.73	1.10	12.1	6.0
Acala 1517-70	19.7	3.70	•97	13.2	4.0
Paymaster 909	17.3	3.76	•86	13.5	5.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 256	99.6	112.8	1.019	4.5	10.2
Stoneville 213	95.9	109.9	1.013	2.0	9.7
Stoneville 731N	107.5	118.6	•986	4.5	10.6
Brycot 4	100.5	113.4	1.026	3.8	10.3
Deltapine 16	110.9	121.1	1.029	2.5	11.4
Coker 310	102.4	114.9	1.046	1.8	10.7
Delcot 277	105.3	117.0	1.074	2.0	11.3
Deltapine 55	98.1	111.6	1.017	5.0	10.0
Acala 1517-70	107.6	118.7	1.057	2.5	11.4
Paymaster 909	112.7	122.4	.971	8.5	10.9

Table 37.--Delta test: Yield, boll, and spinning data for Rohwer, Ark.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 213	366 a	4.42	39.6		5.05
Brycot 4	323 ab	4.06	39.5		4.85
Coker 310	314 ab	4.78	39.3		4.55
Stoneville 256	310 abc	4.64	36.8		4.85
Deltapine 16	301 bc	4.49	38.5		5.00
Deltapine 55	299 bc	3.87	41.8		4.60
Stoneville 731N	293 bc	3.98	38.0		4.65
Delcot 277	267 bc	5.20	38.2		4.60
Acala 1517-70	256 c	4.60	37.5		4.70
Paymaster 909	170 d	5.87	32.0		5.15
	Span length (inches)	Color	rimeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
Stoneville 213	1.09	0.51	72.4	7.2	11.2
Brycot 4	1.10	.50	69.5	6.7	10.9
Coker 310	1.20	.55	68.6	6.8	12.5
Stoneville 256	1.11	.50	68.9	6.7	11.4
Deltapine 16	1.15	.53	74.3	7.1	11.7
Deltapine 55	1.14	.54	71.9	7.4	11.6
Stoneville 731N	1.09	.49	68.4	6.5	11.8
Delcot 277	1.13	.53	70.7	7.9	12.9
Acala 1517-70	1.12	.52	71.6	7.5	13.9
					10.7

CENTRAL REGIONAL COTTON VARIETY TEST

Table 38.--Central test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 310	667 a	5.08 cd	37.3 bc	10.6 cd	4.76 b
Stoneville 7A	640 a	4.89 e	38.2 a	10.4 d	4.95 a
Tamcot Sp 37	633 ab	5.07 cd	37.0 bc	10.9 c	4.20 d
Quapaw	620 ab	6.00 a	35.0 d	12.2 a	5.03 a
Deltapine 16	609 ab	5.14 c	37.2 bc	10.6 cd	5.10 a
Stoneville 213	604 ab	4.87 de	37.6 ab	10.5 cd	5.01 a
Acala 1517-70	483 bc	5.18 c	35.6 d	11.7 b	4.46 c
Paymaster 909	415 c	5.60 b	36.6 c	12.6 a	5.08 a
	Span length (in	nches)	Colori	Yarn	
	2.5%	50%	$\frac{R}{d}$	Hunter's	tenacity
			α	b value	(cN/tex)
Coker 310	1.12 a	0.51 ab	69.8 e	8.7 b	12.7 b
Stoneville 7A	1.09 b	.49 b	71.5 cd	8.6 b	12.0 d
Tamcot Sp 37	1.09 ab	.50 ab	73.2 ab	8.1 c	11.9 d
Quapaw	1.03 c	.50 b	72.3 bc	8.7 b	12.6 bc
Deltapine 16	1.10 ab	.51 ab	74.0 a	8.9 b	12.1 cd
Stoneville 213	1.10 ab	.51 ab	70.7 de	8.9 b	12.0 d
Acala 1517-70	1.12 a	.52 a	70.7 de	8.7 b	14.7 a
Paymaster 909	.99 d	.49 b	70.6 de	9.4 a	11.8 d

Table 39.--Central test: Seed data by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 310 Stoneville 7A Tamcot Sp 37	19.0 bc	3.06 ab	1.12 bc	14.5 abc	5.1 ab
	18.5 c	3.14 a	1.27 a	14.1 bc	4.8 abc
	19.3 ab	3.11 a	1.06 cd	13.3 c	4.6 bc
Quapaw	19.9 a	3.08 ab	1.20 ab	13.9 bc	5.0 ab
	19.8 a	2.93 b	1.12 bc	13.4 c	5.5 a
	18.2 c	3.05 ab	1.27 a	15.6 a	4.1 c
	18.6 ab	3.13 a	1.00 d	14.9 ab	4.7 abc
Paymaster 909	18.4 c Seed volume (mm ³)	3.17 a Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	5.0 ab Acid- delinted- seed index
Coker 310 Stoneville 7A Tamcot Sp 37 Quapaw Deltapine 16 Stoneville 213	89.5 e	104.9 e	1.027 a	2.2 d	9.2 d
	88.4 e	104.0 e	1.002 b	5.8 bc	8.9 d
	95.5 d	109.6 d	1.001 b	5.8 bc	9.6 c
	108.4 b	119.2 b	1.001 b	5.9 bc	10.9 a
	89.7 e	105.1 e	1.016 ab	2.4 d	9.2 d
	89.9 e	105.2 e	.993 b	5.2 c	9.0 d
Acala 1517-70 Paymaster 909	100.0 c	113.0 c	1.010 ab	8.6 a	10.1 b
	115.1 a	123.9 a	.967 c	8.1 ab	11.1 a

Table 40.--Central test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Bossier City, LA Nueces County, TX. Weslaco, TX College Station, TX	786 a 529 b 520 b 500 b	5.44 a 5.35 ab 4.86 b 5.21 c	38.6 a 36.9 b 36.4 b 35.3 c	12.6 a 10.7 c 10.2 d 11.1 b	5.46 a 4.80 b 4.51 c 4.52 c
	Span length (i 2.5%	nches) 50%	$\frac{\text{Color}}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
Bossier City, LA Nueces County, TX . Weslaco, TX College Station, TX	1.11 a 1.07 bc 1.05 c 1.08 b	0.52 a .50 b .50 b .48 c	73.2 a 71.0 c 70.4 c 71.8 b	8.2 c 9.7 a 8.6 b 8.5 b	12.7 a 12.2 b 12.1 b 12.8 a

Table 41.--Central test: Seed data by test location

Location	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Bossier City, LA Nueces County, TX . Weslaco, TX College Station, TX	19.0 b 18.9 b 20.0 a 18.5 b	3.70 a 2.95 c 2.45 d 3.24 b	1.06 b 1.09 b 1.35 a 1.03 b	10.3 c 16.4 a 15.6 a 14.7 b	5.3 a 4.3 b 4.5 b 4.2 a
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Bossier City, LA Nueces County, TX . Weslaco, TX College Station, TX	109.1 a 91.2 c 88.9 c 99.1 b	119.7 a 106.2 c 104.4 c 112.2 b	1.035 a .997 b .974 c 1.002 b	2.3 b 3.5 b 8.2 a 8.1 a	11.29 a 9.11 c 8.69 d 9.87 b

Table 42.--Central test: Yield, boll, and spinning data for Bossier City, La.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 310	908 a	5.48	39.2	12.0	5.50
Stoneville 7A	903 a	4.89	40.2	11.4	5.60
Stoneville 213	856 a	5.15	39.7	11.5	5.75
Deltapine 16	828 a	5.46	39.2	12.1	5.75
Acala 1517-70	787 a	5.57	37.3	13.7	5.10
Quapaw	755 a	6.02	36.7	13.7	5.50
Tamcot Sp 37	726 a	5.10	38.0	12.5	4.65
Paymaster 909	524 b	5.87	38.8	14.5	5.85
	Span length (inches)	Colorimeter		Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
Coker 310	1.19	0.53	69.3	7.3	12.9
Stoneville 7A	1.14	.51	74.7	8.1	12.1
Stoneville 213	1.13	.54	69.9	7.8	12.0
Deltapine 16	1.14	.53	76.4	8.5	12.0
Acala 1517-70	1.13	.54	71.2	7.7	15.7
Quapaw	1.07	.53	75.2	8.6	13.3
Tamcot Sp 37	1.12	.52	75.8	7.8	11.8
Paymaster 909	1.00	.51	73.4	9.6	12.0

Table 43.--Central test: Seed data for Bossier City, La.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 310	19.0	3.80	1.08	10.5	5.5
Stoneville 7A	18.6	3.60	1.25	9.9	5.0
Stoneville 213	17.9	3.52	1.19	10.6	6.0
Deltapine 16	19.6	3.59	1.13	10.6	6.0
Acala 1517-70	19.7	3.76	.92	10.8	5.0
Quapaw	20.4	3.71	1.10	8.9	6.0
Tamcot Sp 37	18.5	3.90	•90	9.4	5.0
Paymaster 909	18.1	3.76	•96	11.1	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Coker 310	102.1	114.7	1.066	0.8	10.9
Stoneville 7A	100.1	113.1	1.030	3.3	10.3
Stoneville 213	103.1	115.4	1.020	1.0	10.5
Deltapine 16	99.8	112.9	1.043	2.5	10.4
Acala 1517-70	114.1	123.5	1.044	5.8	11.0
Quapaw	118.7	126.8	1.036	1.8	12.3
Tamcot Sp 37	106.2	117.7	1.044	•3	11.1
Paymaster 909	128.4	133.6	•995	3.0	12.8

Table 44.--Central test: Yield, boll, and spinning data for Weslaco, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 37	687 a	4.85	37.5	10.2	4.15
Coker 310	625 ab	4.43	37.2	9.5	4.40
Deltapine 16	565 bc	4.71	36.3	9.7	4.80
Quapaw	520 c	5.55	35.2	10.9	4.50
Stoneville 7A	507 c	4.64	36.7	10.0	4.50
Stoneville 213	471 cd	4.62	36.4	10.0	4.55
Acala 1517-70	398 d	4.71	37.0	10.2	4.30
Paymaster 909	389 d	5.41	35.3	11.3	4.90
	Span length (inches)	Colorimeter		Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
Tamcot Sp 37	1.11	0.53	70.5	8.0	12.7
Coker 310	1.04	.49	69.8	8.5	12.4
Deltapine 16	1.07	.51	71.8	8.5	12.0
Quapaw	1.02	.51	70.4	8.8	11.8
Stoneville 7A	1.06	.51	70.0	8.6	11.8
Stoneville 213	1.08	.51	70.7	9.1	12.3
Acala 1517-70	1.10	.52	70.1	8.8	13.8
Paymaster 909	. 95	. 48	70.2	8.9	10.6

Table 45.--Central test: Seed data for Weslaco, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Tamcot Sp 37	20.5	2.45	1.27	15.7	4.5
Coker 310	20.4	2.22	1.44	14.1	5.5
Deltapine 16	20.4	2.25	1.35	15.6	5.0
Quapaw	19.2	2.48	1.30	15.4	4.0
Stoneville 7A	19.8	2.61	1.47	16.2	4.0
Stoneville 213	19.8	2.51	1.43	17.1	4.0
Acala 1517-70	20.3	2.63	1.20	15.2	5.0
Paymaster 909	19.8	2.48	1.37	15.6	4.5
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³)	surface area (mm ²)	density (g/cm ³)	(percent)	delinted- seed index
Tamcot Sp 37	90.1	105.5	0.969	12.3	8.7
Coker 310	83.8	100.4	.969	3.5	8.1
Deltapine 16	81.6	98.7	•973	2.8	8.2
Quapaw	102.6	115.0	.947	9.8	9.7
Stoneville 7A	84.9	101.4	•991	4.8	8.4
Stoneville 213	82.9	99.8	1.007	9.5	8.4
Acala 1517-70	89.0	104.6	•968	14.5	8.6
Paymaster 909	96.4	110.2	.970	8.3	9.4

Table 46.--Central test: Yield, boll, and spinning data for College Station, Tex.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Stoneville 7A	646 a	4.69	36.9	10.1	4.60
Deltapine 16	579 a	5.17	36.0	10.3	4.90
Quapaw	563 a	6.38	33.6	12.6	5.00
Stoneville 213	531 ab	4.88	36.0	10.5	4.75
Tamcot Sp 37	513 ab	5.23	35.2	10.7	3.75
Coker 310	512 ab	4.96	36.2	10.6	4.50
Acala 1517-70	403 b	5.13	33.3	11.7	4.00
Paymaster 909	252 c	5.27	35.2	12.8	4.70
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
Stoneville 7A	1.08	0.46	71.5	8.3	12.1
Deltapine 16	1.12	.49	75.5	8.7	12.3
Quapaw	1.00	.46	72.8	8.5	12.8
Stoneville 213	1.12	.51	71.6	8.7	12.1
Tamcot Sp 37	1.09	.49	73.8	8.0	12.4
Coker 310	1.13	.50	70.1	8.6	12.6
Acala 1517-70	1.12	.51	70.3	8.6	15.3
Paymaster 909	. 99	.47	69.3	8.8	13.2

Table 47.--Central test: Seed data for College Station, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Stoneville 7A	17.1	3.35	0.97	14.9	5.5
Deltapine 16	20.5	3.06	• 94	11.8	6.0
Quapaw	19.6	3.24	1.21	15.5	5.0
Stoneville 213	17.8	3.22	1.25	16.8	5.0
Tamcot Sp 37	19.0	3.20	1.03	13.8	4.5
Coker 310	18.4	3.21	1.00	15.0	5.5
Acala 1517-70	18.8	3.26	.96	15.8	4.5
Paymaster 909	17.2	3.39	.87	14.0	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Stoneville 7A	86.5	102.6	0.993	10.8	8.6
Deltapine 16	90.3	105.6	1.030	4.0	9.3
Quapaw	110.8	121.0	1.012	9.0	11.2
Stoneville 213	89.2	104.8	1.003	6.5	9.0
Tamcot Sp 37	96.4	110.3	.996	6.5	9.6
Coker 310	90.2	105.5	1.027	3.0	9.3
Acala 1517-70	100.9	113.7	1.010	7.8	10.2
Paymaster 909	128.9	133.8	.947	17.5	11.8

Table 48.--Central test: Yield, boll, and spinning data for Nueces County, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Quapaw	640 a	6.06	34.6	11.8	5.15
Coker 310	624 ab	5.45	36.7	10.4	4.65
Tamcot Sp 37	604 abc	5.10	37.6	10.4	4.25
Stoneville 213	559 abcd	4.83	38.5	9.9	5.00
Stoneville 7A	505 bcd	4.95	39.0	10.1	5.10
Paymaster 909	494 cd	5.86	37.0	12.1	4.90
Deltapine 16	462 d	5.24	37.4	10.2	4.95
Acala 1517-70	342 e	5.31	34.8	11.2	4.45
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Quapaw	1.03	0.49	70.9	8.8	12.4
Coker 310	1.11	.52	69.9	10.6	12.9
Tamcot Sp 37	1.05	.46	73.0	8.6	11.0
Stoneville 213	1.07	.50	70.6	10.1	11.8
Stoneville 7A	1.08	.50	69.8	9.5	12.0
Paymaster 909	1.01	.51	69.8	10.2	11.6
Deltapine 16	1.09	.52	72.5	10.0	12.2
Acala 1517-70	1.12	.52	71.4	9.8	13.9

Table 49.--Central test: Seed data for Nueces County, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Quapaw	20.3 18.1 19.5 17.5 18.7 18.5	2.89 3.02 2.91 2.97 3.00 3.06 2.84	1.18 .97 1.05 1.20 1.38 .95	15.7 18.4 14.3 17.6 15.5 16.4	5.0 4.0 4.5 3.0 5.0 3.5 5.0
Acala 1517-70	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Quapaw	101.5 82.1 89.4 84.3 82.2 106.9 87.3 96.2	114.2 99.1 104.9 100.9 99.1 118.2 103.2 110.1	1.008 1.048 .994 .943 .995 .958 1.019	3.3 1.5 4.3 3.8 4.3 3.8 .5 6.5	10.23 8.60 8.92 8.02 8.22 10.24 8.90 9.77

Table 50.--Plains test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	480 a	5.57 def	37.0 a	11.0 jk	4.72 gh
Paymaster 18	473 a	5.36 efg	34.6 fg	11.7 fg	5.70 a
Tamcot 788	461 ab	4.73 cd	35.4 d	11.0 ijk	4.47 k
Lockett BXL	457 abc	5.56 def	35.5 d	11.7 fg	4.89 ef
Westburn 70	456 abc	5.32 fg	34.9 ef	11.2 hijk	5.14 bc
Deltapine 16	446 abc	5.12 g	36.1 c	10.9 k	4.99 de
Paymaster 303	442 abc	5.51 def	35.4 d	11.6 fg	4.88 ef
Lankart LX 571	437 abc	6.51 a	36.3 bc	13.0 ab	5.15 bc
Coker 5110	433 abc	5.43 ef	36.2°c	11.5 gh	4.84 fg
Lankart 611	433 abc	6.37 a	36.6 ab	12.7 bc	4.75 gh
Paymaster 202	421 abc	6.09 b	35.3 de	12.2 de	5.19 b
Coker 310	414 abc	5.50 def	37.0 a	11.5 ghi	4.96 def
Ounn 119	398 abc	6.00 b	34.4 g	13.3 a	4.91 ef
Lockett 4789A	396 abcd	5.85 bc	35.2 de	12.0 ef	5.06 cd
Stripper Cala S	394 abcd	5.64 cde	34.5 fg	11.4 ghij	4.60 ij
Paymaster 909	393 abcd	6.03 b	35.5 d	12.5 cd	5.22 b
Paymaster 111A	375 bcd	6.48 a	34.7 fg	12.2 de	4.91 ef
Acala 1517-70	370 cd	5.41 ef	35.6 d	12.5 cd	4.69 hi
Gregg 35W	309 d	5.45 def	34.6 fg	12.1 de	4.57 jk
	Span length (imeter	Yarn
	Span length (inches) 50%		Hunter's	tenacity
			$\frac{\text{Color}}{R_d}$		
Tamcot Sp 21				Hunter's	tenacity
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Paymaster 18	2.5% 1.05 cd	50% 0.48 de	73.9 a	Hunter's b value	tenacity (cN/tex) 10.9 gh
Paymaster 18	2.5% 1.05 cd .96 h	0.48 de .46 f	73.9 a 72.2 def	Hunter's b value 10.3 bcd 10.2 cd	tenacity (cN/tex) 10.9 gh 10.1 jk
Paymaster 18 Famcot 788 Lockett BXL	1.05 cd .96 h 1.06 c 1.03 def	0.48 de .46 f .47 de	73.9 a 72.2 def 73.3 ab	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c
Paymaster 18 Tamcot 788 Lockett BXL Westburn 70	1.05 cd .96 h 1.06 c 1.03 def .98 g	0.48 de .46 f .47 de .48 cde	73.9 a 72.2 def 73.3 ab 71.7 dfg	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f
Paymaster 18 Famcot 788 Lockett BXL Westburn 70 Deltapine 16	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b	0.48 de .46 f .47 de .48 cde .46 f	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k
Paymaster 18 Famcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303	1.05 cd .96 h 1.06 c 1.03 def .98 g	0.48 de .46 f .47 de .48 cde .46 f .48 bcde	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg
Paymaster 18 Famcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b 1.01 f 1.02 ef	0.48 de .46 f .47 de .48 cde .46 f .48 bcde .46 f	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab 72.2 def	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab 10.5 ab	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg 10.7 hi
Paymaster 18 Tamcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571 Coker 5110	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b 1.01 f 1.02 ef 1.09 ab	0.48 de .46 f .47 de .48 cde .46 f .48 bcde .46 f .47 de .49 bcd	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab 72.2 def 71.9 def 71.6 efg	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab 10.5 ab 10.5 ab	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg 10.7 hi 10.5 ij
Tamcot Sp 21 Paymaster 18 Tamcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571 Coker 5110 Lankart 611	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b 1.01 f 1.02 ef 1.09 ab .97 gh	0.48 de .46 f .47 de .48 cde .46 f .48 bcde .46 f .47 de	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab 72.2 def 71.9 def	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab 10.5 ab 10.5 ab 10.4 abcd	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg 10.7 hi 10.5 ij 11.6 ef
Paymaster 18 Tamcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571 Coker 5110 Lankart 611 Paymaster 202	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b 1.01 f 1.02 ef 1.09 ab .97 gh .96 h	0.48 de .46 f .47 de .48 cde .46 f .48 bcde .46 f .47 de .49 bcd .46 f .47 ef	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab 72.2 def 71.9 def 71.6 efg 72.3 cde 72.9 bc	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab 10.5 ab 10.5 ab 10.3 abcd 10.4 abcd 10.3 abcd	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg 10.7 hi 10.5 ij 11.6 ef 9.9 k
Paymaster 18 Tamcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571 Coker 5110 Lankart 611 Paymaster 202 Coker 310	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b 1.01 f 1.02 ef 1.09 ab .97 gh .96 h 1.11 a	0.48 de .46 f .47 de .48 cde .46 f .48 bcde .46 f .47 de .49 bcd .46 f .47 ef .49 b	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab 72.2 def 71.6 efg 72.3 cde 72.9 bc 71.4 fg	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab 10.5 ab 10.5 ab 10.4 abcd 10.3 abcd 10.4 abcd	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg 10.7 hi 10.5 ij 11.6 ef 9.9 k 11.0 gh
Paymaster 18 Tamcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571 Coker 5110 Lankart 611 Paymaster 202 Coker 310 Dunn 119	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b 1.01 f 1.02 ef 1.09 ab .97 gh .96 h 1.11 a 1.08 b	0.48 de .46 f .47 de .48 cde .46 f .48 bcde .46 f .47 de .49 bcd .46 f .47 ef .49 b	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab 72.2 def 71.9 def 71.6 efg 72.3 cde 72.9 bc 71.4 fg 71.1 g	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab 10.5 ab 10.5 ab 10.4 abcd 10.4 abcd 10.4 abcd	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg 10.7 hi 10.5 ij 11.6 ef 9.9 k 11.0 gh 12.0 d
Paymaster 18 Tamcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571 Coker 5110 Lankart 611 Paymaster 202 Coker 310 Dunn 119 Lockett 4789A	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b 1.01 f 1.02 ef 1.09 ab .97 gh .96 h 1.11 a 1.08 b 1.01 f	0.48 de .46 f .47 de .48 cde .46 f .48 bcde .46 f .47 de .49 bcd .46 f .47 ef .49 b	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab 72.2 def 71.6 efg 72.3 cde 72.9 bc 71.4 fg	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab 10.5 ab 10.5 ab 10.4 abcd 10.4 abcd 10.4 abcd 9.8 e	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg 10.7 hi 10.5 ij 11.6 ef 9.9 k 11.0 gh 12.0 d 12.8 c
Paymaster 18 Tamcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571 Coker 5110 Lankart 611 Paymaster 202 Coker 310 Dunn 119 Lockett 4789A Stripper Cala S	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b 1.01 f 1.02 ef 1.09 ab .97 gh .96 h 1.11 a 1.08 b 1.01 f 1.04 cde	0.48 de .46 f .47 de .48 cde .46 f .48 bcde .46 f .47 de .49 bcd .46 f .47 ef .49 b .49 bc .49 bc	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab 72.2 def 71.9 def 71.6 efg 72.3 cde 72.9 bc 71.4 fg 71.1 g 71.6 fg 72.2 def	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab 10.5 ab 10.5 ab 10.4 abcd 10.4 abcd 10.4 abcd 9.8 e 10.4 abcd	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg 10.7 hi 10.5 ij 11.6 ef 9.9 k 11.0 gh 12.0 d 12.8 c 11.2 fg
Paymaster 18 Pamcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571 Coker 5110 Lankart 611 Paymaster 202 Coker 310 Dunn 119 Lockett 4789A Stripper Cala S Paymaster 909	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b 1.01 f 1.02 ef 1.09 ab .97 gh .96 h 1.11 a 1.08 b 1.01 f 1.04 cde .97 gh	0.48 de .46 f .47 de .48 cde .46 f .48 bcde .46 f .47 de .49 bcd .46 f .47 ef .49 b .49 bc .49 bc .49 de .49 de .49 de .49 de	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab 72.2 def 71.6 efg 72.3 cde 72.9 bc 71.4 fg 71.1 g 71.6 fg 72.2 def 71.7 efg	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab 10.5 ab 10.5 ab 10.4 abcd 10.4 abcd 10.4 abcd 9.8 e 10.4 abcd 10.3 abcd	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg 10.7 hi 10.5 ij 11.6 ef 9.9 k 11.0 gh 12.0 d 12.8 c 11.2 fg 11.9 de
Paymaster 18 Tamcot 788 Lockett BXL Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571 Coker 5110 Lankart 611	1.05 cd .96 h 1.06 c 1.03 def .98 g 1.08 b 1.01 f 1.02 ef 1.09 ab .97 gh .96 h 1.11 a 1.08 b 1.01 f 1.04 cde	0.48 de .46 f .47 de .48 cde .46 f .48 bcde .46 f .47 de .49 bcd .46 f .47 ef .49 b .49 bc .49 bc	73.9 a 72.2 def 73.3 ab 71.7 dfg 72.5 cd 73.3 ab 72.2 def 71.9 def 71.6 efg 72.3 cde 72.9 bc 71.4 fg 71.1 g 71.6 fg 72.2 def	Hunter's b value 10.3 bcd 10.2 cd 10.3 bcd 10.2 d 10.6 a 10.5 ab 10.5 ab 10.5 ab 10.4 abcd 10.4 abcd 10.4 abcd 10.4 abcd 10.4 abcd 10.4 abcd 10.5 ab 10.6 a	tenacity (cN/tex) 10.9 gh 10.1 jk 12.5 c 11.4 f 9.8 k 11.3 fg 10.7 hi 10.5 ij 11.6 ef 9.9 k 11.0 gh 12.0 d 12.8 c 11.2 fg 11.9 de 11.4 fg

Table 51.--Plains test: Seed data by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Tamcot Sp 21 Paymaster 18 Tamcot 788 Lockett BXL	20.4 a 19.9 b 20.2 a 19.7 bcd	3.71 a 3.57 ef 3.61 cde 3.57 e	0.99 a 1.00 a .89 c .88 cd	6.8 j 9.0 hi 8.4 i 10.0 defg	6.8 a 6.5 ab 6.1 cd 5.9 cde
Westburn 70 Deltapine 16 Paymaster 303 Lankart LX 571 Coker 5110	19.8 bc 19.8 bc 19.7 bc 18.6 g 19.4 def	3.69 ab 3.41 h 3.52 fg 3.57 ef 3.64 bcd	.99 a .93 b .89 c .63 h .98 ab	8.3 i 10.8 cd 10.7 cde 9.3 gh 10.6 def	6.6 ab 5.6 e 5.7 e 6.6 ab 5.6 e
Lankart 611 Paymaster 202 Coker 310 Dunn 119	16.8 i 19.8 bc 19.3 ef 18.2 h	3.41 h 3.59 de 3.60 de 3.61 de	.68 g .88 cd 1.00 a .84 de	13:8 a 9.3 gh 11.6 bc 11.8 b	4.9 fg 5.9 cde 5.8 de 5.0 fg
Stripper Cala S Paymaster 909 Paymaster 111A Acala 1517-70	19.6 cde 19.4 def 18.8 g 19.2 f 20.3 a	3.61 de 3.66 bc 3.57 ef 3.49 g 3.42 h	.84 cde .85 cde .79 f .83 ef .97 ab	10.4 def 9.2 ghi 9.9 efgh 11.6 bc 12.0 b	5.7 de 6.2 bc 5.7 e 5.2 f 4.8 g
Gregg 35W	18.3 h Seed volume	3.69 ab Seed surface	.16 i Seed density	9.8 fgh Floaters (percent)	5.6 e Acid- delinted-
Tamcot Sp 21 Paymaster 18	(mm ³) 103.4 g 103.2 g	area (mm ²) 115.3 g 115.2 g	(g/cm ³) 	3.3 e 4.5 de	seed index 10.5 e 10.4 e
Tamcot 788	102.9 g 103.3 g 102.7 g 94.9 h	114.9 g 115.3 g 114.8 g 109.0 h	1.034 cde 1.039 bcde 1.041 bcde 1.044 bcd	3.8 de 4.2 de 4.2 de	10.4 e
Paymaster 303 Lankart LX 571	105.3 fg 125.8 a 96.6 h 119.7 b	116.8 fg 131.4 a 110.2 h 127.0 b	1.029 de .982 h 1.051 abc .954 i	4.2 de 6.4 c 4.6 cde 11.2 a	10.7 de 12.2 a 10.0 f 11.2 bc
Paymaster 202 Coker 310 Dunn 119 Lockett 4789A	112.0 cd 95.0 h 123.9 a 108.1 def	121.7 cd 109.0 h 130.1 a 118.7 def	1.005 fg 1.062 a .980 h 1.029 de	6.5 c 4.1 de 10.4 a 5.6 cd	11.1 bc 9.9 f 12.0 a 10.9 cd
Stripper Cala S Paymaster 909 Paymaster 111A Acala 1517-70	102.2 g 114.6 c 110.2 de 106.1 efg	114.4 g 123.6 c 120.3 de 117.4 efg	1.038 bcde 1.021 ef 1.031 de 1.055 ab	5.1 cde	10.5 e 11.4 b 11.1 bc 11.2 bc

Table 52.--Plains test: Yield, boll, and spinning data by test location

Location	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lubbock (irr.), TX	780 a	5.96 d	37.0 d	12.7 b	5.05 c
Lamesa, TX	634 b	5.66 e	37.5 bc	11.2 e	5.01 cd
Halfway, TX	473 c	5.58 ef	37.8 b	12.0 cd	4.86 e
Chillicothe (irr.), TX	427 d	5.91 d	34.1 f	12.2 c	4.28 g
Lubbock (dry), TX	359 e	4.31 g	39.3 a	9.5 f	5.19 b
Chillicothe (dry), TX	305 f	5.40 f	36.5 e	11.8 d	4.94 de
Altus, OK	266 g	6.63 b	30.0 h	14.5 a	4.64 f
Mangum, OK	264 g	6.17 c	32.8 g	12.9 b	4.67 f
Chickasha (irr.), OK .	253 g	7.36 a	32.8 g	13.0 b	4.98 cd
Chickasha (dry), OK	110 h	4.36 g	37.4 c	9.1 g	5.65 a
	Span length	(inches)	Coloria	neter	Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Lubbock (irr.), Tex	1.04 d	0.47 e	77.0 a	11.7 a	11.4 c
Lamesa, TX	1.02 e	.44 g	73.9 d	11.2 b	11.3 c
Halfway, TX	1.03 e	.46 f	75.8 b	11.2 b	10.7 d
Chillicothe (irr.), TX	1.07 c	.49 d	68.1 h	9.4 e	13.0 a
Lubbock (dry), TX	.89 f	.40 i	75.0 c	11.3 b	8.8 f
Chillicothe (dry), TX.	1.04 d	.50 c	67.4 i	9.3 e	12.7 ab
Altus, OK	1.13 a	.53 a	72.1 e	9.7 d	12.9 a
Mangum, OK	1.11 b	.51 b	70.4 f	9.3 e	12.5 b
Chickasha (irr.), OK	1.11 b	.54 a	72.5 e	9.6 d	12.6 ab
Chickasha (dry), OK	.87 f	.41 h	69.3 g	10.6 c	9.3 e

Table 53.--Plains test: Seed data by test location

Location	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lubbock (irr.), TX Lamesa, TX Halfway, TX Chillicothe (dry), TX. Lubbock (dry), TX Chillicothe (irr.), TX Altus, OK Mangum, OK Chickasha (irr.), OK Chickasha (dry), OK	19.4 e 20.6 b 19.6 d 17.8 g 18.8 f 17.3 h 19.4 de 20.6 b 21.0 a	3.60 cd 3.37 e 3.72 b 3.73 b 3.93 a 3.59 d 3.53 c 3.19 f 3.40 e	0.96 b .91 c .82 d .69 f .68 f .72 e .85 d .96 b 1.00 a	9.6 d 12.7 a 8.1 e 10.3 c 7.1 f 9.4 d 11.8 b 12.7 a 10.5 c 9.6 d	5.4 d 5.5 cd 5.7 c 5.5 cd 6.3 b 5.1 e 5.6 cd 5.5 cd 6.2 b 7.0 a
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Lubbock (irr.), TX Lamesa, TX Halfway, TX Chillicothe (dry), TX. Lubbock (dry), TX Chillicothe (irr.), TX Altus, OK Mangum, OK Chickasha (irr.), OK Chickasha (dry), OK	112.7 c 103.5 e 109.4 d 114.5 bc 83.7 f 116.1 b 117.0 b 114.1 bc 125.1 a 80.4 g	122.3 c 115.6 e 119.9 d 123.6 bc 100.3 f 124.7 b 125.4 b 123.2 bc 131.1 a 97.6 g	1.012 de 1.002 e 1.021 d .980 f 1.050 c .955 g 1.042 c 1.067 b 1.010 de 1.096 a	7.1 ab 3.6 ef 6.6 ab 6.7 ab 4.8 de 7.9 a 4.4 def 5.1 cd 6.2 bc 3.5 f	11.4 c 10.4 e 11.1 d 10.0 f 9.8 g 10.6 e 12.2 b 12.1 b 12.7 a 8.8 g

Table 54.--Plains test: Combined yield, boll, and spinning data for Lubbock (irrigated and dryland), Halfway, and Lamesa, Tex., by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	609 a	4.91	38.7	10.3	4.95
Lockett BXL	604 a	5.25	38.2	11.0	4.91
Tamcot Sp 21	599 ab	5.11	40.0	10.2	4.76
Paymaster 18	598 abc	4.83	35.7	11.1	6.00
Tamcot 788	597 abc	5.24	37.9	10.5	4.53
Paymaster 303	591 abc	5.49	37.7	11.4	5.00
Coker 5110	578 abc	4.97	38.9	10.4	4.91
Lockett 4789A	573 abc	5.34	37.8	10.8	
Coker 310	564 abc	5.06	39.5		5.22
				10.5	5.10
Dunn 119	561 abc	5.78	37.1	13.1	5.25
Paymaster 909	552 abc	6.05	39.2	12.4	5.61
Westburn 70	546 abc	5.89	37.6	11.1	4.83
Lankart LX 571	543 abc	6.24	38.2	13.1	5.23
Paymaster 202	541 abc	5.61	37.9	11.6	5.35
Lankart 611	539 abc	5.36	39.2	12.0	4.68
Gregg 35W	528 abc	5.36	36.3	11.9	4.62
Acala 1517-70	525 abc	5.35	37.0	12.1	4.90
Paymaster 111A	515 bc	6.29	37.0	11.8	5.03
Stripper Cala S	505 c	5.05	36.5	10.7	4.63
	Span length (inches)	Combi	ned	Yarn
	2.5%	50%	R_d	Hunter's	tenacity
			a	b value	(cN/tex)
Deltapine 16	1.04	0.45	77.2	11.2	10.6
Lockett BXL	1.00	.44	75.2	11.3	10.4
Tamcot Sp 21	1.01	.44	77.3	11.0	10.0
Paymaster 18	.89	.42	75.1	11.2	9.0
Tamcot 788	1.01	.44	75.8	11.4	11.6
		.42	74.7	11.5	9.9
Paymaster 303	.97			11.4	10.6
Coker 5110	1.02	.45	75.7		
Lockett 4789A	1.01	.46	74.8	11.2	10.4
Coker 310	1.06	.46	74.5	11.5	10.8
Dunn 119	1.04	.46	75.0	11.4	11.9
Paymaster 909	. 91	.43	74.8	11.7	10.4
Westburn 70	. 97	. 43	75.4	11.7	9.4
Lankart LX 571	1.00	.44	75.2	11.5	9.7
Paymaster 202	. 94	.44	75.6	11.4	10.1
Lankart 611	.93	.42	75.5	11.3	8.8
Gregg 35W	1.01	.45	74.9	11.5	12.5
01088 3311				11.3	13.7
Acala 1517-70	1 08	.48	/5.9	11.0	13.7
	1.08	.48	75.9 75.1		
Acala 1517-70 Paymaster 111A Stripper Cala S	1.08 1.00 .98	.48 .45 .44	75.9 75.1 75.6	11.3	10.5

Table 55.--Plains test: Combined seed data for Lubbock (irrigated and dryland),
Halfway, and Lamesa, Tex., by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 16	19.6	3.46	0.95	10.4	5.7
Lockett BXL	19.7	3.61	•93	9.6	5.6
Tamcot Sp 21	20.8	3.84	•97	5.2	6.3
Paymaster 18	19.9	3.67	1.05	7.6	6.7
Tamcot 788	20.2	3.74	.81	7.6	5.8
Paymaster 303	20.0	3.59	.86	10.1	5.5
Coker 5110	19.2	3.72	•99	9.6	5.8
Lockett 4789A	20.2	3.65	•92	9.4	6.1
Coker 310	19.3	3.68	•97	10.8	5.7
Dunn 119	18.6	3.64	.81	11.1	4.7
Paymaster 909	18.8	3.63	.81	9.9	5.5
Westburn 70	19.8	3.77	•92	6.7	6.6
Lankart LX 571	18.9	3.68	•67	8.5	6.7
Paymaster 202	19.6	3.70	•90	9.3	6.0
Lankart 611	16.3	3.47	•69	13.8	4.7
Gregg 35W	18.8	3.78	.15	8.9	5.6
Acala 1517-70	20.7	3.54	•97	11.0	4.7
Paymaster 111A	19.0	3.61	.86	11.0	5.1
Stripper Cala S	19.4	3.72	.82	7.5	6.3
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³)	surface area (mm ²)	density (g/cm ³)	(percent)	delinted- seed index
Deltapine 16	90.2	105.5	1.026	7.1	9.2
•	97.2				
Lockett BXL		110.7	1.107	5.1	10.0
Tamcot Sp 21	98.7	111.9	1.025	3.4	10.0
Paymaster 18	97.7	111.1	1.026	4.8	10.0
Tamcot 788	92.5	107.0	1.056	4.0	9.7
Paymaster 303	102.7	114.9	1.025	4.0	10.5
Coker 5110	89.5	104.8	1.051	5.5	9.4
Lockett 4789A	96.0	109.8	1.042	5.9	10.1
Coker 310	91.0	105.9	1.048	3.2	9.5
Dunn 119	121.9	128.7	.982	8.4	12.0
Paymaster 909	113.2	122.7	1.003	5.5	11.4
Westburn 70	99.6	112.5	1.044	3.9	10.3
Lankart LX 571	123.6	130.1	.985	5.7	12.2
n	104.1	116.0	1.009	6.2	10.5
· · · · · ·	1110	1 (1() ()	•952	11.6	10.6
Lankart 611	111.2	120.9			
Lankart 611 Gregg 35W	112.0	121.7	•982	6.9	11.0
Lankart 611 Gregg 35W Acala 1517-70	112.0 100.6	121.7 113.4	.982 1.075	6.9 2.4	11.0
Paymaster 202 Lankart 611 Gregg 35W Acala 1517-70 Paymaster 111A Stripper Cala S	112.0	121.7	•982	6.9	

Table 56.--Plains test: Combined yield, boll, and spinning data for Chillicothe, Tex. (irrigated and dryland); Chickasha (irrigated and dryland), Altus, and Mangum, Okla., by cotton variety

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	401 a	5.88	35.0	11.5	4.70
Westburn 70	396 ab	5.71	33.9	12.1	5.50
Paymaster 18	390 ab	6.05	33.7	11.4	4.43
Tamcot 788	371 abc	5.77	33.7	12.2	4.87
Lankart LX 571	366 abcd	5.61	33.1	11.2	5.34
Lankart 611	363 abcde	5.25	34.4	11.2	5.02
Lockett BXL	360 abcdef	5.53	33.9	11.8	4.80
Paymaster 303	342 abcdefg	6.70	35.0	12.9	5.10
Paymaster 202	342 abcdefg	5.74	34.4	12.2	4.79
Deltapine 16	337 abcdefg	7.04	34.9	13.2	4.79
Coker 5110	336 abcdefg	6.42	33.5	12.5	5.08
Stripper Cala S	320 abcdefg	5.78	35.4	12.1	4.87
Coker 310	314 bcdefg	6.15	32.6	13.5	4.68
Dunn 119	290 cdefg	6.19	33.5	12.8	4.95
Paymaster 909	287 efg	6.03	33.2	11.9	4.57
Paymaster 111A	281 efg	6.01	33.1	12.5	4.96
Lockett 4789A	279 fg	6.60	33.1	12.5	4.83
Acala 1517-70	267 g	5.46	34.7	12.7	4.55
Gregg 35W	164 h	5.52	33.4	12.3	4.54
	Chan longth (inches)	Color	·	V
	Span length (i			rimeter	Yarn
	2.5%	50%		Hunter's	tenacity
			$\frac{R_d}{R_d}$		
Tamcot Sp 21				Hunter's	tenacity
_	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Westburn 70	1.07	0.50	R_d	Hunter's b value	tenacity (cN/tex)
Westburn 70 Paymaster 18	1.07	0.50 .48	71.7 70.3	Hunter's b value 9.8 9.6	tenacity (cN/tex) 11.6 10.9
Vestburn 70 Paymaster 18 Tamcot 788	1.07 1.00 1.08	50% 0.50 .48 .50	71.7 70.3 71.7	Hunter's b value 9.8 9.6 9.5	tenacity (cN/tex) 11.6 10.9 13.1
Vestburn 70 Paymaster 18 Tamcot 788 Lankart LX 571	1.07 1.00 1.08 1.06	0.50 .48 .50	71.7 70.3 71.7 69.3	Hunter's b value 9.8 9.6 9.5 9.4	tenacity (cN/tex) 11.6 10.9 13.1 12.1
Vestburn 70 Paymaster 18 Famcot 788 Lankart LX 571 Lankart 611	1.07 1.00 1.08 1.06 .99	50% 0.50 .48 .50 .50 .48	71.7 70.3 71.7 69.3 70.6	Hunter's b value 9.8 9.6 9.5 9.4 9.8	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1
Vestburn 70 Paymaster 18 Famcot 788 Lankart LX 571 Lankart 611 Lockett BXL	1.07 1.00 1.08 1.06 .99 1.10	50% 0.50 .48 .50 .50 .48 .51	71.7 70.3 71.7 69.3 70.6 70.7	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303	1.07 1.00 1.08 1.06 .99 1.10 1.04 1.04	50% 0.50 .48 .50 .50 .48 .51 .48	71.7 70.3 71.7 69.3 70.6 70.7 70.4	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1 9.8	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1 11.8 11.3
Westburn 70 Paymaster 18 Famcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202	1.07 1.00 1.08 1.06 .99 1.10 1.04 1.04 1.13	50% 0.50 .48 .50 .48 .51 .48 .50 .51	71.7 70.3 71.7 69.3 70.6 70.7 70.4 69.7	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1 9.8 9.8	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1 11.8 11.3
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16	1.07 1.00 1.08 1.06 .99 1.10 1.04 1.04 1.13	50% 0.50 .48 .50 .48 .51 .48 .51 .48 .50 .51 .49	71.7 70.3 71.7 69.3 70.6 70.7 70.4 69.7 68.9	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1 9.8 9.8 9.7	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1 11.8 11.3 11.0 12.2
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110	1.07 1.00 1.08 1.06 .99 1.10 1.04 1.04 1.13 1.01	50% 0.50 .48 .50 .50 .48 .51 .48 .50 .51 .49 .49	71.7 70.3 71.7 69.3 70.6 70.7 70.4 69.7 68.9 70.2	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1 9.8 9.8 9.7	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1 11.8 11.3 11.0 12.2 10.7
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S	1.07 1.00 1.08 1.06 .99 1.10 1.04 1.04 1.13 1.01 .97	50% 0.50 .48 .50 .48 .51 .48 .51 .48 .50 .51 .49 .49	71.7 70.3 71.7 69.3 70.6 70.7 70.4 69.7 68.9 70.2 71.1	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1 9.8 9.8 9.7 9.8	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1 11.8 11.3 11.0 12.2 10.7 11.5
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S Coker 310	1.07 1.00 1.08 1.06 .99 1.10 1.04 1.04 1.13 1.01 .97 1.14	50% 0.50 .48 .50 .50 .48 .51 .48 .51 .49 .49 .52 .51	71.7 70.3 71.7 69.3 70.6 70.7 70.4 69.7 68.9 70.2 71.1 69.4 68.4	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1 9.8 9.7 9.8 9.7 9.7	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1 11.8 11.3 11.0 12.2 10.7 11.5 12.8
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S Coker 310 Dunn 119	1.07 1.00 1.08 1.06 .99 1.10 1.04 1.04 1.13 1.01 .97 1.14 1.10	50% 0.50 .48 .50 .50 .48 .51 .48 .50 .51 .49 .49 .49 .52 .51 .49	71.7 70.3 71.7 69.3 70.6 70.7 70.4 69.7 68.9 70.2 71.1 69.4 68.4 69.3	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1 9.8 9.7 9.7 9.7 9.7 9.8 9.6 8.8 9.9	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1 11.8 11.3 11.0 12.2 10.7 11.5 12.8 13.5 11.7
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S Coker 310 Paymaster 909	1.07 1.00 1.08 1.06 .99 1.10 1.04 1.04 1.13 1.01 .97 1.14 1.10 1.01	50% 0.50 .48 .50 .48 .51 .48 .51 .49 .49 .49 .49 .49	71.7 70.3 71.7 69.3 70.6 70.7 70.4 69.7 68.9 70.2 71.1 69.4 68.4 69.3 69.8	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1 9.8 9.7 9.7 9.7 9.8 9.6 8.8 9.9	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1 11.8 11.3 11.0 12.2 10.7 11.5 12.8 13.5 11.7 12.8
Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S Coker 310 Dunn 119 Paymaster 909 Paymaster 111A	1.07 1.00 1.08 1.06 .99 1.10 1.04 1.04 1.13 1.01 .97 1.14 1.10 1.01 1.01	50% 0.50 .48 .50 .50 .48 .51 .48 .50 .51 .49 .49 .49 .49 .49 .49 .49	71.7 70.3 71.7 69.3 70.6 70.7 70.4 69.7 68.9 70.2 71.1 69.4 68.4 69.3 69.8 69.6	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1 9.8 9.7 9.7 9.7 9.7 9.8 9.6 8.8 9.9	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1 11.8 11.3 11.0 12.2 10.7 11.5 12.8 13.5 11.7 12.8 12.0
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S Coker 310 Dunn 119 Paymaster 909	1.07 1.00 1.08 1.06 .99 1.10 1.04 1.04 1.13 1.01 .97 1.14 1.10 1.01	50% 0.50 .48 .50 .48 .51 .48 .51 .49 .49 .49 .49 .49	71.7 70.3 71.7 69.3 70.6 70.7 70.4 69.7 68.9 70.2 71.1 69.4 68.4 69.3 69.8	Hunter's b value 9.8 9.6 9.5 9.4 9.8 10.1 9.8 9.7 9.7 9.7 9.8 9.6 8.8 9.9	tenacity (cN/tex) 11.6 10.9 13.1 12.1 10.1 11.8 11.3 11.0 12.2 10.7 11.5 12.8 13.5 11.7 12.8

Table 57.--Plains test: Combined seed data for Chillicothe, Tex. (irrigated and dry-land); Chickasha (irrigated and dryland), Altus, and Mangum, Okla., by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Tamcot Sp 21	20.0	3.61	1.01	7.9	7.0
Westburn 70	19.7	3.62	1.05	9.4	6.5
Paymaster 18	19.9	3.48	•96	10.0	6.3
Tamcot 788	20.1	3.51	•95	9.0	6.2
Lankart LX 571	18.4	3.49	•60	9.9	6.5
Lankart 611	17.1	3.36	.68	13.8	5.0
Lockett BXL	19.6	3.55	.84	10.3	6.1
Paymaster 303	19.5	3.47	•92	11.1	5.8
Paymaster 202	19.9	3.49	.86	9.4	5.9
Deltapine 16	19.9	3.37	•92	11.1	5.5
Coker 5110	19.6	3.58	.97	11.3	5.4
Stripper Cala S	19.4	3.60	.87	10.3	6.1
Coker 310	19.3	3.53	1.03	12.1	5.9
Dunn 119	18.0	3.58	•86	12.2	5.2
Paymaster 909	18.8	3.52	.78	9.9	5.8
Paymaster 111A	19.3	3.40	.81	11.9	5.3
Lockett 4789A	19.1	3.58	.79	11.0	5.5
Acala 1517-70	19.9	3.32	.97	12.6	4.8
Gregg 35W	17.8	3.60	•17	10.4	5.6
•	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³)	surface area (mm ²)	density (g/cm ³)	(percent)	delinted- seed index
Tamcot Sp 21	^	^	^ ~	(percent)	delinted- seed index
Tamcot Sp 21 Westburn 70	(mm ³)	area (mm ²)	(g/cm ³)		seed index
*	(mm ³)	area (mm ²)	(g/cm ³)	3.3	seed index
Westburn 70	(mm ³) 106.6 104.8	area (mm ²) 117.6 116.3	(g/cm ³) 1.041 1.038	3.3	10.8 10.6
Westburn 70 Paymaster 18 Tamcot 788	(mm ³) 106.6 104.8 106.8	area (mm ²) 117.6 116.3 117.9	(g/cm ³) 1.041 1.038 1.032	3.3 4.4 4.3	10.8 10.6 10.7
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571	(mm ³) 106.6 104.8 106.8 109.9	117.6 116.3 117.9 120.2	(g/cm ³) 1.041 1.038 1.032 1.019	3.3 4.4 4.3 3.6	10.8 10.6 10.7 11.0
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611	(mm ³) 106.6 104.8 106.8 109.9 127.2	117.6 116.3 117.9 120.2 132.3	(g/cm ³) 1.041 1.038 1.032 1.019 .980	3.3 4.4 4.3 3.6 6.9	10.8 10.6 10.7 11.0 12.2
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955	3.3 4.4 4.3 3.6 6.9 11.0	10.8 10.6 10.7 11.0 12.2 11.6
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4 107.4	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2 118.3	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955 1.046	3.3 4.4 4.3 3.6 6.9 11.0 3.6	10.8 10.6 10.7 11.0 12.2 11.6 10.9
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4 107.4 107.0	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2 118.3 118.0 125.5	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955 1.046 1.031	3.3 4.4 4.3 3.6 6.9 11.0 3.6 4.3	10.8 10.6 10.7 11.0 12.2 11.6 10.9 10.8 11.5
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4 107.4 107.0 117.4 98.0	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2 118.3 118.0 125.5 111.2	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955 1.046 1.031 1.003 1.056	3.3 4.4 4.3 3.6 6.9 11.0 3.6 4.3 6.6 3.0	10.8 10.6 10.7 11.0 12.2 11.6 10.9 10.8 11.5
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4 107.4 107.0 117.4 98.0 101.3	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2 118.3 118.0 125.5 111.2 113.8	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955 1.046 1.031 1.003 1.056 1.051	3.3 4.4 4.3 3.6 6.9 11.0 3.6 4.3 6.6 3.0 4.1	10.8 10.6 10.7 11.0 12.2 11.6 10.9 10.8 11.5 10.0
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4 107.4 107.0 117.4 98.0	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2 118.3 118.0 125.5 111.2 113.8 115.9	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955 1.046 1.031 1.003 1.056 1.051 1.048	3.3 4.4 4.3 3.6 6.9 11.0 3.6 4.3 6.6 3.0 4.1 4.0	10.8 10.6 10.7 11.0 12.2 11.6 10.9 10.8 11.5 10.0
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S Coker 310	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4 107.4 107.0 117.4 98.0 101.3 104.3 97.6	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2 118.3 118.0 125.5 111.2 113.8 115.9 111.0	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955 1.046 1.031 1.003 1.056 1.051 1.048 1.072	3.3 4.4 4.3 3.6 6.9 11.0 3.6 4.3 6.6 3.0 4.1 4.0 4.6	10.8 10.6 10.7 11.0 12.2 11.6 10.9 10.8 11.5 10.0 10.3
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S Coker 310 Dunn 119	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4 107.4 107.0 117.4 98.0 101.3 104.3 97.6 125.2	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2 118.3 118.0 125.5 111.2 113.8 115.9 111.0 131.0	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955 1.046 1.031 1.003 1.056 1.051 1.048 1.072 .979	3.3 4.4 4.3 3.6 6.9 11.0 3.6 4.3 6.6 3.0 4.1 4.0 4.6 11.7	10.8 10.6 10.7 11.0 12.2 11.6 10.9 10.8 11.5 10.0 10.3 10.6 10.1
Westburn 70 Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S Coker 310 Dunn 119 Paymaster 909	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4 107.4 107.0 117.4 98.0 101.3 104.3 97.6 125.2 115.4	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2 118.3 118.0 125.5 111.2 113.8 115.9 111.0 131.0 124.1	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955 1.046 1.031 1.003 1.056 1.051 1.048 1.072 .979 1.033	3.3 4.4 4.3 3.6 6.9 11.0 3.6 4.3 6.6 3.0 4.1 4.0 4.6 11.7 5.9	10.8 10.6 10.7 11.0 12.2 11.6 10.9 10.8 11.5 10.0 10.3 10.6 10.1 12.0 11.5
Paymaster 18 Tamcot 788 Lankart LX 571 Lankart 611 Lockett BXL Paymaster 303 Paymaster 202 Deltapine 16 Coker 5110 Stripper Cala S Coker 310 Dunn 119 Paymaster 909 Paymaster 111A	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4 107.4 107.0 117.4 98.0 101.3 104.3 97.6 125.2 115.4 114.3	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2 118.3 118.0 125.5 111.2 113.8 115.9 111.0 131.0 124.1 123.3	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955 1.046 1.031 1.003 1.056 1.051 1.048 1.072 .979 1.033 1.034	3.3 4.4 4.3 3.6 6.9 11.0 3.6 4.3 6.6 3.0 4.1 4.0 4.6 11.7 5.9 4.1	10.8 10.6 10.7 11.0 12.2 11.6 10.9 10.8 11.5 10.0 10.3 10.6 10.1 12.0 11.5
Westburn 70 Paymaster 18	(mm ³) 106.6 104.8 106.8 109.9 127.2 125.4 107.4 107.0 117.4 98.0 101.3 104.3 97.6 125.2 115.4	area (mm ²) 117.6 116.3 117.9 120.2 132.3 131.2 118.3 118.0 125.5 111.2 113.8 115.9 111.0 131.0 124.1	(g/cm ³) 1.041 1.038 1.032 1.019 .980 .955 1.046 1.031 1.003 1.056 1.051 1.048 1.072 .979 1.033	3.3 4.4 4.3 3.6 6.9 11.0 3.6 4.3 6.6 3.0 4.1 4.0 4.6 11.7 5.9	10.8 10.6 10.7 11.0 12.2 11.6 10.9 10.8 11.5 10.0 10.3 10.6 10.1 12.0 11.5

Table 58.--Plains test: Yield, boll, and spinning data for Lubbock, Tex. (irrigated)

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 16	950 a	4.82	37.0	10.9	4.45
Tamcot 788	845 b	6.09	38.0	11.6	4.90
Coker 5110	841 bc	5.71	37.5	12.0	4.85
Coker 310	837 bcd	5.70	38.6	11.4	5.10
Tamcot Sp 21	826 bcd	5.50	38.7	11.4	4.95
Paymaster 303	824 bcd	5.64	36.9	12.4	5.05
Paymaster 909	821 bcd	7.01	38.3	14.2	5.80
cala 1517-70	819 bcd	5.73	36.1	13.5	5.00
Paymaster 18	817 bcde	5.20	35.3	12.3	6.10
Lockett BXL	813 bcde	5.58	37.3	11.9	4.95
Ounn 119	762 cdef	6.69	35.0	15.5	5.15
Westburn 70	757 defg	5.70	38.0	11.9	4.90
Lockett 4789A	756 defg	5.85	36.2	12.4	5.15
Paymaster 202	740 efgh	6.10	37.5	12.6	5.35
Gregg 35W	695 fgh	5.99	35.1	13.9	4.90
Lankart 611	687 fgh	6.58	37.7	14.5	4.65
Stripper Cala S	679 gh	5.57	35.3	11.5	4.50
Paymaster 111A	679 gh	7.39	35.6	13.6	5.10
Lankart LX 571	662 h	6.49	37.9	14.3	5.25
	Span length (Color	imeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
Deltapine 16	1.07	0.44	76.6	11.5	11.3
_	1.07 1.03	0.44	76.6 76.7	11.5 11.5	11.3 12.0
amcot 788					
Camcot 788	1.03	.44	76.7	11.5	12.0
Camcot 788	1.03 1.10 1.12	.44 .49 .48	76.7 77.4	11.5 12.0	12.0 11.8
Camcot 788	1.03 1.10	.44 .49	76.7 77.4 76.0	11.5 12.0 11.5	12.0 11.8 11.9
Camcot 788	1.03 1.10 1.12 1.05 1.02	.44 .49 .48 .46 .45	76.7 77.4 76.0 79.7 76.6	11.5 12.0 11.5 11.1	12.0 11.8 11.9 11.5
Camcot 788	1.03 1.10 1.12 1.05 1.02	.44 .49 .48 .46 .45	76.7 77.4 76.0 79.7 76.6 76.6	11.5 12.0 11.5 11.1 11.8 11.9	12.0 11.8 11.9 11.5 10.8 11.0
Camcot 788	1.03 1.10 1.12 1.05 1.02 .94 1.12	.44 .49 .48 .46 .45 .44	76.7 77.4 76.0 79.7 76.6 76.6 77.1	11.5 12.0 11.5 11.1 11.8 11.9	12.0 11.8 11.9 11.5 10.8 11.0
Camcot 788	1.03 1.10 1.12 1.05 1.02 .94 1.12	.44 .49 .48 .46 .45 .44	76.7 77.4 76.0 79.7 76.6 76.6 77.1 75.9	11.5 12.0 11.5 11.1 11.8 11.9 11.7	12.0 11.8 11.9 11.5 10.8 11.0 14.0 9.8
Camcot 788 Coker 5110 Coker 310 Camcot Sp 21 Caymaster 303 Caymaster 909 Cala 1517-70 Caymaster 18 Cockett BXL	1.03 1.10 1.12 1.05 1.02 .94 1.12 .96 1.06	.44 .49 .48 .46 .45 .44 .50 .47	76.7 77.4 76.0 79.7 76.6 76.6 77.1 75.9 76.2	11.5 12.0 11.5 11.1 11.8 11.9 11.7 11.8	12.0 11.8 11.9 11.5 10.8 11.0 14.0 9.8 11.0
Camcot 788	1.03 1.10 1.12 1.05 1.02 .94 1.12 .96 1.06 1.10	.44 .49 .48 .46 .45 .44 .50 .47 .49	76.7 77.4 76.0 79.7 76.6 76.6 77.1 75.9 76.2 77.2	11.5 12.0 11.5 11.1 11.8 11.9 11.7 11.8 12.2	12.0 11.8 11.9 11.5 10.8 11.0 14.0 9.8 11.0
Camcot 788	1.03 1.10 1.12 1.05 1.02 .94 1.12 .96 1.06 1.10	.44 .49 .48 .46 .45 .44 .50 .47 .49 .48	76.7 77.4 76.0 79.7 76.6 76.6 77.1 75.9 76.2 77.2	11.5 12.0 11.5 11.1 11.8 11.9 11.7 11.8 12.2 11.6 11.9	12.0 11.8 11.9 11.5 10.8 11.0 14.0 9.8 11.0 13.1
Camcot 788	1.03 1.10 1.12 1.05 1.02 .94 1.12 .96 1.06 1.10 1.03 1.10	.44 .49 .48 .46 .45 .44 .50 .47 .49 .48	76.7 77.4 76.0 79.7 76.6 76.6 77.1 75.9 76.2 77.2 77.7	11.5 12.0 11.5 11.1 11.8 11.9 11.7 11.8 12.2 11.6 11.9	12.0 11.8 11.9 11.5 10.8 11.0 14.0 9.8 11.0 13.1 10.3 11.7
Camcot 788	1.03 1.10 1.12 1.05 1.02 .94 1.12 .96 1.06 1.10 1.03 1.10	.44 .49 .48 .46 .45 .44 .50 .47 .49 .48 .45	76.7 77.4 76.0 79.7 76.6 76.6 77.1 75.9 76.2 77.2 77.7 76.6 76.6	11.5 12.0 11.5 11.1 11.8 11.9 11.7 11.8 12.2 11.6 11.9	12.0 11.8 11.9 11.5 10.8 11.0 14.0 9.8 11.0 13.1 10.3 11.7 11.0
Camcot 788 Coker 5110 Coker 310 Camcot Sp 21 Caymaster 303 Caymaster 909 Cala 1517-70 Caymaster 18 Cockett BXL Cockett BXL Cockett 4789A Caymaster 202 Caymaster 202 Caymaster 202 Caymaster 202	1.03 1.10 1.12 1.05 1.02 .94 1.12 .96 1.06 1.10 1.03 1.10 1.00	.44 .49 .48 .46 .45 .44 .50 .47 .49 .48 .45 .53 .50	76.7 77.4 76.0 79.7 76.6 76.6 77.1 75.9 76.2 77.2 77.7 76.6 76.6 75.6	11.5 12.0 11.5 11.1 11.8 11.9 11.7 11.8 12.2 11.6 11.9 11.6	12.0 11.8 11.9 11.5 10.8 11.0 14.0 9.8 11.0 13.1 10.3 11.7 11.0 13.4
Camcot 788	1.03 1.10 1.12 1.05 1.02 .94 1.12 .96 1.06 1.10 1.03 1.10 1.00 1.06 1.00	.44 .49 .48 .46 .45 .44 .50 .47 .49 .48 .45 .53 .50 .47	76.7 77.4 76.0 79.7 76.6 76.6 77.1 75.9 76.2 77.2 77.7 76.6 76.6 75.6 76.8	11.5 12.0 11.5 11.1 11.8 11.9 11.7 11.8 12.2 11.6 11.9 11.6 11.9	12.0 11.8 11.9 11.5 10.8 11.0 14.0 9.8 11.0 13.1 10.3 11.7 11.0 13.4 9.7
Camcot 788 Coker 5110 Coker 310 Camcot Sp 21 Caymaster 303 Caymaster 909 Cala 1517-70 Caymaster 18 Cockett BXL Counn 119 Cockett 4789A Caymaster 202 Caymaster 202 Caregg 35W Cankart 611 Catripper Cala S	1.03 1.10 1.12 1.05 1.02 .94 1.12 .96 1.06 1.10 1.03 1.10 1.00 1.00 1.01	.44 .49 .48 .46 .45 .44 .50 .47 .49 .48 .45 .53 .50 .47 .45	76.7 77.4 76.0 79.7 76.6 76.6 77.1 75.9 76.2 77.2 77.7 76.6 76.6 76.6 76.6 76.8 77.4	11.5 12.0 11.5 11.1 11.8 11.9 11.7 11.8 12.2 11.6 11.9 11.6 11.9	12.0 11.8 11.9 11.5 10.8 11.0 14.0 9.8 11.0 13.1 10.3 11.7 11.0 13.4 9.7 11.5
Deltapine 16 Tamcot 788 Coker 5110 Tamcot Sp 21 Paymaster 303 Paymaster 909 Acala 1517-70 Paymaster 18 Dunn 119 Westburn 70 Lockett 4789A Paymaster 202 Gregg 35W Lankart 611 Paymaster 111A Paymaster 111A Lankart LX 571	1.03 1.10 1.12 1.05 1.02 .94 1.12 .96 1.06 1.10 1.03 1.10 1.00 1.06 1.00	.44 .49 .48 .46 .45 .44 .50 .47 .49 .48 .45 .53 .50 .47	76.7 77.4 76.0 79.7 76.6 76.6 77.1 75.9 76.2 77.2 77.7 76.6 76.6 75.6 76.8	11.5 12.0 11.5 11.1 11.8 11.9 11.7 11.8 12.2 11.6 11.9 11.6 11.9	12.0 11.8 11.9 11.5 10.8 11.0 14.0 9.8 11.0 13.1 10.3 11.7 11.0 13.4 9.7

Table 59.--Plains test: Seed data for Lubbock, Tex. (irrigated)

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 16	18.8	3.34	1.05	12.3	5.0
Tamcot 788	20.3	3.77	•95	7.4	5.5
Coker 5110	19.1	3.59	1.05	10.5	5.0
Coker 310	19.3	3.54	1.09	12.4	5.0
Tamcot Sp 21	21.3	3.87	1.11	3.6	6.5
Paymaster 303	20.3	3.55	.98	10.1	5.0
Paymaster 909	19.2	3.61	•90	9.7	5.5
Acala 1517-70	21.1	3.55	1.14	11.8	5.0
Paymaster 18	19.9	3.62	1.19	7.5	7.0
Lockett BXL	19.6	3.58	1.06	8.9	5.0
Dunn 119	19.4	3.61	1.00	1.1.8	4.0
Westburn 70	19.5	3.80	1.04	6.8	6.5
Lockett 4789A	19.8	3.56	1.01	10.1	5.5
Paymaster 202	19.6	3.59	1.09	8.6	6.0
Gregg 35W	18.7	3.74	•22	8.6	6.0
Lankart 611	16.1	3.36	.78	14.8	3.5
Stripper Cala S	18.9	3.66	.88	7.0	6.0
Paymaster 111A	18.6	3.51	•97	11.8	4.5
Lankart LX 571	18.9	3.66	•79	8.4	7.0
Mariner Direction					
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
	(mm ³)	area (mm²)	(g/cm ³)		seed index
		107.0	0.988	16.5	9.2
Deltapine 16	93.1	107.8			
Deltapine 16	93.1	107.8		3.8	10.5
Tamcot 788	99.0	112.2	1.063	3.8 8.8	10.5
Tamcot 788 Coker 5110	99.0 102.5	112.2 114.8	1.063 1.025	8.8	10.5
Tamcot 788	99.0 102.5 101.6	112.2 114.8 114.2	1.063 1.025 1.057	8.8 2.0	10.5 10.7
Tamcot 788	99.0 102.5 101.6 107.3	112.2 114.8 114.2 118.5	1.063 1.025 1.057 1.025	8.8 2.0 3.8	10.5 10.7 11.0
Tamcot 788 Coker 5110 Coker 310 Tamcot Sp 21 Paymaster 303	99.0 102.5 101.6 107.3 109.5	112.2 114.8 114.2 118.5 120.1	1.063 1.025 1.057 1.025 1.015	8.8 2.0 3.8 4.8	10.5 10.7 11.0 11.1
Tamcot 788 Coker 5110 Coker 310 Tamcot Sp 21 Paymaster 303 Paymaster 909	99.0 102.5 101.6 107.3 109.5 123.9	112.2 114.8 114.2 118.5 120.1 130.4	1.063 1.025 1.057 1.025 1.015	8.8 2.0 3.8 4.8 5.8	10.5 10.7 11.0 11.1 12.6
Tamcot 788	99.0 102.5 101.6 107.3 109.5 123.9 110.2	112.2 114.8 114.2 118.5 120.1 130.4 120.6	1.063 1.025 1.057 1.025 1.015 1.018 1.077	8.8 2.0 3.8 4.8 5.8 1.5	10.5 10.7 11.0 11.1 12.6 11.9
Tamcot 788	99.0 102.5 101.6 107.3 109.5 123.9 110.2 106.7	112.2 114.8 114.2 118.5 120.1 130.4 120.6 118.1	1.063 1.025 1.057 1.025 1.015 1.018 1.077	8.8 2.0 3.8 4.8 5.8 1.5	10.5 10.7 11.0 11.1 12.6 11.9 10.8
Tamcot 788 Coker 5110 Coker 310 Tamcot Sp 21 Paymaster 303 Paymaster 909 Acala 1517-70 Paymaster 18 Lockett BXL	99.0 102.5 101.6 107.3 109.5 123.9 110.2 106.7 107.5	112.2 114.8 114.2 118.5 120.1 130.4 120.6 118.1 118.6	1.063 1.025 1.057 1.025 1.015 1.018 1.077 1.011	8.8 2.0 3.8 4.8 5.8 1.5 5.3 7.3	10.5 10.7 11.0 11.1 12.6 11.9 10.8 11.0
Tamcot 788 Coker 5110 Coker 310 Tamcot Sp 21 Paymaster 303 Paymaster 909 Acala 1517-70 Paymaster 18 Lockett BXL Dunn 119	99.0 102.5 101.6 107.3 109.5 123.9 110.2 106.7 107.5 139.3	112.2 114.8 114.2 118.5 120.1 130.4 120.6 118.1 118.6 141.4	1.063 1.025 1.057 1.025 1.015 1.018 1.077 1.011 1.027	8.8 2.0 3.8 4.8 5.8 1.5 5.3 7.3 6.0	10.5 10.7 11.0 11.1 12.6 11.9 10.8 11.0
Tamcot 788 Coker 5110 Coker 310 Tamcot Sp 21 Paymaster 303 Paymaster 909 Acala 1517-70 Paymaster 18 Lockett BXL Dunn 119 Westburn 70	99.0 102.5 101.6 107.3 109.5 123.9 110.2 106.7 107.5 139.3	112.2 114.8 114.2 118.5 120.1 130.4 120.6 118.1 118.6 141.4 119.4	1.063 1.025 1.057 1.025 1.015 1.018 1.077 1.011 1.027 .984 1.015	8.8 2.0 3.8 4.8 5.8 1.5 5.3 7.3 6.0 6.3	10.5 10.7 11.0 11.1 12.6 11.9 10.8 11.0 13.7
Tamcot 788 Coker 5110 Coker 310 Tamcot Sp 21 Paymaster 303 Paymaster 909 Acala 1517-70 Paymaster 18 Lockett BXL Dunn 119 Westburn 70 Lockett 4789A	99.0 102.5 101.6 107.3 109.5 123.9 110.2 106.7 107.5 139.3 108.5 109.0	112.2 114.8 114.2 118.5 120.1 130.4 120.6 118.1 118.6 141.4 119.4 119.8	1.063 1.025 1.057 1.025 1.015 1.018 1.077 1.011 1.027 .984 1.015 1.027	8.8 2.0 3.8 4.8 5.8 1.5 5.3 7.3 6.0 6.3 8.8	10.5 10.7 11.0 11.1 12.6 11.9 10.8 11.0 13.7 11.0
Tamcot 788 Coker 5110 Coker 310 Tamcot Sp 21 Paymaster 303 Paymaster 909 Acala 1517-70 Paymaster 18 Dunn 119 Westburn 70 Lockett 4789A Paymaster 202	99.0 102.5 101.6 107.3 109.5 123.9 110.2 106.7 107.5 139.3 108.5 109.0 107.9	112.2 114.8 114.2 118.5 120.1 130.4 120.6 118.1 118.6 141.4 119.4 119.4 119.8 118.9	1.063 1.025 1.057 1.025 1.015 1.018 1.077 1.011 1.027 .984 1.015 1.027	8.8 2.0 3.8 4.8 5.8 1.5 5.3 7.3 6.0 6.3 8.8 11.8	10.5 10.7 11.0 11.1 12.6 11.9 10.8 11.0 13.7 11.0 11.2 10.5
Tamcot 788	99.0 102.5 101.6 107.3 109.5 123.9 110.2 106.7 107.5 139.3 108.5 109.0 107.9 124.1	112.2 114.8 114.2 118.5 120.1 130.4 120.6 118.1 118.6 141.4 119.4 119.8 118.9 130.5	1.063 1.025 1.057 1.025 1.015 1.018 1.077 1.011 1.027 .984 1.015 1.027 .975	8.8 2.0 3.8 4.8 5.8 1.5 5.3 7.3 6.0 6.3 8.8 11.8 9.5	10.5 10.7 11.0 11.1 12.6 11.9 10.8 11.0 13.7 11.0 11.2 10.5 12.1
Tamcot 788 Coker 5110 Coker 310 Tamcot Sp 21 Paymaster 303 Paymaster 909 Acala 1517-70 Paymaster 18 Lockett BXL Dunn 119 Westburn 70 Lockett 4789A Paymaster 202 Gregg 35W Lankart 611	99.0 102.5 101.6 107.3 109.5 123.9 110.2 106.7 107.5 139.3 108.5 109.0 107.9 124.1 131.6	112.2 114.8 114.2 118.5 120.1 130.4 120.6 118.1 118.6 141.4 119.4 119.8 118.9 130.5 135.8	1.063 1.025 1.057 1.025 1.015 1.018 1.077 1.011 1.027 .984 1.015 1.027 .975 .976	8.8 2.0 3.8 4.8 5.8 1.5 5.3 7.3 6.0 6.3 8.8 11.8 9.5 14.8	10.5 10.7 11.0 11.1 12.6 11.9 10.8 11.0 13.7 11.0 11.2 10.5 12.1 12.3
Tamcot 788	99.0 102.5 101.6 107.3 109.5 123.9 110.2 106.7 107.5 139.3 108.5 109.0 107.9 124.1 131.6 109.7	112.2 114.8 114.2 118.5 120.1 130.4 120.6 118.1 118.6 141.4 119.4 119.8 118.9 130.5 135.8 120.2	1.063 1.025 1.057 1.025 1.015 1.018 1.077 1.011 1.027 .984 1.015 1.027 .975 .976	8.8 2.0 3.8 4.8 5.8 1.5 5.3 7.3 6.0 6.3 8.8 11.8 9.5 14.8 6.6	10.5 10.7 11.0 11.1 12.6 11.9 10.8 11.0 13.7 11.0 11.2 10.5 12.1 12.3 11.7
Tamcot 788 Coker 5110 Coker 310 Tamcot Sp 21 Paymaster 303 Paymaster 909 Acala 1517-70 Paymaster 18 Lockett BXL Dunn 119 Westburn 70 Lockett 4789A Paymaster 202 Gregg 35W Lankart 611	99.0 102.5 101.6 107.3 109.5 123.9 110.2 106.7 107.5 139.3 108.5 109.0 107.9 124.1 131.6	112.2 114.8 114.2 118.5 120.1 130.4 120.6 118.1 118.6 141.4 119.4 119.8 118.9 130.5 135.8	1.063 1.025 1.057 1.025 1.015 1.018 1.077 1.011 1.027 .984 1.015 1.027 .975 .976	8.8 2.0 3.8 4.8 5.8 1.5 5.3 7.3 6.0 6.3 8.8 11.8 9.5 14.8	10.5 10.7 11.0 11.1 12.6 11.9 10.8 11.0 13.7 11.0 11.2 10.5 12.1 12.3

Table 60.--Plains test: Yield, boll, and spinning data for Lamesa, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 5110	743 a	5.19	38.5	10.4	4.75
Lockett BXL	711 ab	5.34	38.5	10.4	4.85
Deltapine 16	705 ab	5.19	38.8	10.2	5.00
Lankart LX 571	699 abc	6.69	37.7	13.0	5.15
Tamcot Sp 21	667 abcd	5.09	40.3	10.1	4.90
Westburn 70	662 abcde	5.46	37.7	10.6	4.95
Paymaster 18	655 abcdef	4.95	34.5	10.6	6.05
Lankart 611	647 bcdefg	6.26	38.3	12.4	4.85
ockett 4789A	646 bcdefg	5.45	37.2	10.9	5.10
unn 119	641 bcdefg	6.25	36.4	13.5	5.35
Tamcot 788	626 bcdefg	5.58	37.0	10.4	4.35
Acala 1517-70	609 cdefg	5.55	36.0	12.1	4.65
Stripper Cala S	603 defg	5.68	35.9	10.9	4.70
Paymaster 111A	594 defg	6.11	37.1	11.1	5.05
Paymaster 909	572 defg	6.43	38.1	11.6	5.35
Gregg 35W	572 defg	5.55	35.1	12.0	4.65
aymaster 202	567 efg	5.67	38.8	11.2	5.50
aymaster 303	563 fg	5.74	36.9	11.3	5.00
Coker 310	557 g	5.38	39.5	10.3	5.05
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's	tenacity
			a	b value	(cN/tex)
Coker 5110	1.07	0.45	74.2	11.1	11.1
Lockett BXL	1.02	.44	73.3	11.1	10.8
Deltapine 16	1.07	.46	75.1	11.0	10.8
Lankart LX 571	1.03	.44	74.0	11.1	10.2
amcot Sp 21	1.03	.43	75.0	11.0	10.4
lestburn 70	.99	.43	74.8	11.2	10.1
aymaster 18	.88	.41	74.4	11.1	9.6
ankart 611	.94	.41	74.2	11.0	9.9
ockett 4789A	1.04	.46	71.9	11.2	11.5
unn 119	1.09	.46	72.8	11.2	13.7
'amcot 788	1.06	.45	73.6	11.4	12.4
cala 1517-70	1.12	.51	75.9	11.1	14.7
Stripper Cala S	1.03	.45	74.5	11.4	12.1
cripher cara o	1.03	.45	73.7	11.4	11.0
avmaster 111A			74.2	11.5	11.1
		11			***
aymaster 909	.93	.44			13.6
Paymaster 909 Gregg 35W	.93 1.05	.47	73.2	11.3	13.6
Paymaster 909 Gregg 35W Paymaster 202	.93 1.05 .92	.47	73.2 74.5	11.3 11.1	10.6
Paymaster 111A Paymaster 909 Gregg 35W Paymaster 202 Paymaster 303 Coker 310	.93 1.05	.47	73.2	11.3	

Table 61.--Plains test: Seed data for Lamesa, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 5110	19.4	3.41	1.03	13.2	6.0
Lockett BXL	20.4	3.35	1.04	13.0	6.0
Deltapine 16	20.1	3.15	1.03	13.5	5.5
Lankart LX 571	19.4	3.42	•76	12.5	6.0
Tamcot Sp 21	21.5	3.49	1.07	7.4	6.0
Westburn 70	20.2	3.42	•99	10.1	6.0
Paymaster 18	20.3	3.37	1.10	10.0	6.5
Lankart 611	17.3	3.32	•77	17.4	5.0
Lockett 4789A	20.6	3.30	1.05	12.0	6.0
Dunn 119	19.2	3.42	• 90	13.6	5.0
Tamcot 788	20.8	3.34	•90	10.9	5.0
Acala 1517-70	21.1	3.20	1.07	13.5	4.0
Stripper Cala S	20.0	3.46	•96	12.2	6.0
Paymaster 111A	19.8	3.41	•91	14.1	5.0
Paymaster 909	19.1	3.38	•85	13.4	5.0
Gregg 35W	19.4	3.46	.10	12.7	5.0
Paymaster 202	20.5	3.43	.95	14.6	6.0
Paymaster 303	20.5	3.45	•93	12.7	5.5
Coker 310	19.7	3.37	1.00	14.0	6.0
			/		
	Seed	Seed	Seéd	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
			1 1 31		1 1 1
	(mm ³)	area (mm ²)	(g/cm ³)		seed index
Coker 5110			-	5.3	
	92.4	107.2	1.026	5.3 3.3	9.7
Lockett BXL	92.4 95.5	107.2 109.6	1.026 1.007	3.3	9.7 9.6
Lockett BXL Deltapine 16	92.4 95.5 90.1	107.2 109.6 105.5	1.026 1.007 1.015	3.3 3.0	9.7 9.6 9.1
Lockett BXL Deltapine 16 Lankart LX 571	92.4 95.5 90.1 121.7	107.2 109.6 105.5 128.9	1.026 1.007 1.015 .981	3.3 3.0 3.8	9.7 9.6 9.1 11.9
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21	92.4 95.5 90.1 121.7 101.9	107.2 109.6 105.5 128.9 114.5	1.026 1.007 1.015 .981 .995	3.3 3.0 3.8 3.0	9.7 9.6 9.1 11.9 9.9
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70	92.4 95.5 90.1 121.7 101.9 101.6	107.2 109.6 105.5 128.9 114.5 114.3	1.026 1.007 1.015 .981 .995 1.017	3.3 3.0 3.8 3.0 2.0	9.7 9.6 9.1 11.9 9.9 10.1
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18	92.4 95.5 90.1 121.7 101.9 101.6 98.3	107.2 109.6 105.5 128.9 114.5 114.3	1.026 1.007 1.015 .981 .995 1.017	3.3 3.0 3.8 3.0 2.0 2.5	9.7 9.6 9.1 11.9 9.9 10.1 10.0
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9	107.2 109.6 105.5 128.9 114.5 114.3 111.8	1.026 1.007 1.015 .981 .995 1.017 1.020	3.3 3.0 3.8 3.0 2.0 2.5 2.8	9.7 9.6 9.1 11.9 9.9 10.1 10.0
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611 Lockett 4789A	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9 95.0	107.2 109.6 105.5 128.9 114.5 114.3 111.8 120.3 109.3	1.026 1.007 1.015 .981 .995 1.017 1.020 .994 1.024	3.3 3.0 3.8 3.0 2.0 2.5 2.8 3.5	9.7 9.6 9.1 11.9 9.9 10.1 10.0 11.1
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611 Lockett 4789A Dunn 119	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9 95.0 129.6	107.2 109.6 105.5 128.9 114.5 114.3 111.8 120.3 109.3	1.026 1.007 1.015 .981 .995 1.017 1.020 .994 1.024	3.3 3.0 3.8 3.0 2.0 2.5 2.8 3.5 6.3	9.7 9.6 9.1 11.9 9.9 10.1 10.0 11.1 10.0
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611 Lockett 4789A Dunn 119 Tamcot 788	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9 95.0 129.6 99.4	107.2 109.6 105.5 128.9 114.5 114.3 111.8 120.3 109.3 134.4	1.026 1.007 1.015 .981 .995 1.017 1.020 .994 1.024 .971	3.3 3.0 3.8 3.0 2.0 2.5 2.8 3.5 6.3 3.3	9.7 9.6 9.1 11.9 9.9 10.1 10.0 11.1 10.0 12.6 9.6
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611 Lockett 4789A Dunn 119 Tamcot 788 Acala 1517-70	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9 95.0 129.6 99.4	107.2 109.6 105.5 128.9 114.5 114.3 111.8 120.3 109.3 134.4 112.6 112.9	1.026 1.007 1.015 .981 .995 1.017 1.020 .994 1.024 .971 .995 1.041	3.3 3.0 3.8 3.0 2.0 2.5 2.8 3.5 6.3 3.3 2.0	9.7 9.6 9.1 11.9 9.9 10.1 10.0 11.1 10.0 12.6 9.6 10.6
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611 Lockett 4789A Dunn 119 Tamcot 788 Acala 1517-70 Stripper Cala S	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9 95.0 129.6 99.4 99.8 101.7	107.2 109.6 105.5 128.9 114.5 114.3 111.8 120.3 109.3 134.4 112.6 112.9 114.2	1.026 1.007 1.015 .981 .995 1.017 1.020 .994 1.024 .971 .995 1.041 1.004	3.3 3.0 3.8 3.0 2.0 2.5 2.8 3.5 6.3 3.3 2.0 3.3	9.7 9.6 9.1 11.9 9.9 10.1 10.0 11.1 10.0 12.6 9.6 10.6 10.5
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611 Lockett 4789A Dunn 119 Acala 1517-70 Stripper Cala S Paymaster 111A	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9 95.0 129.6 99.4 99.8 101.7 105.3	107.2 109.6 105.5 128.9 114.5 114.3 111.8 120.3 109.3 134.4 112.6 112.9 114.2 116.9	1.026 1.007 1.015 .981 .995 1.017 1.020 .994 1.024 .971 .995 1.041 1.004 .969	3.3 3.0 3.8 3.0 2.0 2.5 2.8 3.5 6.3 3.3 2.0 3.3 8.5	9.7 9.6 9.1 11.9 9.9 10.1 10.0 11.1 10.0 12.6 9.6 10.6 10.5 10.4
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611 Lockett 4789A Dunn 119 Tamcot 788 Acala 1517-70 Stripper Cala S Paymaster 111A Paymaster 909	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9 95.0 129.6 99.4 99.8 101.7 105.3 113.0	107.2 109.6 105.5 128.9 114.5 114.3 111.8 120.3 109.3 134.4 112.6 112.9 114.2 116.9 122.7	1.026 1.007 1.015 .981 .995 1.017 1.020 .994 1.024 .971 .995 1.041 1.004 .969	3.3 3.0 3.8 3.0 2.0 2.5 2.8 3.5 6.3 3.3 2.0 3.3 8.5 3.0	9.7 9.6 9.1 11.9 9.9 10.1 10.0 11.1 10.0 12.6 9.6 10.6 10.5 10.4 11.2
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611 Lockett 4789A Dunn 119 Tamcot 788 Acala 1517-70 Stripper Cala S Paymaster 111A Paymaster 909 Gregg 35W	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9 95.0 129.6 99.4 99.8 101.7 105.3 113.0	107.2 109.6 105.5 128.9 114.5 114.3 111.8 120.3 109.3 134.4 112.6 112.9 114.2 116.9 122.7 122.6	1.026 1.007 1.015 .981 .995 1.017 1.020 .994 1.024 .971 .995 1.041 1.004 .969 .993	3.3 3.0 3.8 3.0 2.0 2.5 2.8 3.5 6.3 3.3 2.0 3.3 8.5 3.0 4.5	9.7 9.6 9.1 11.9 9.9 10.1 10.0 11.1 10.0 12.6 9.6 10.6 10.5 10.4 11.2 11.0
Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611 Lockett 4789A Dunn 119 Tamcot 788 Acala 1517-70 Stripper Cala S Paymaster 111A Paymaster 909 Gregg 35W Paymaster 202	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9 95.0 129.6 99.4 99.8 101.7 105.3 113.0 113.0 100.3	107.2 109.6 105.5 128.9 114.5 114.3 111.8 120.3 109.3 134.4 112.6 112.9 114.2 116.9 122.7 122.6 113.3	1.026 1.007 1.015 .981 .995 1.017 1.020 .994 1.024 .971 .995 1.041 1.004 .969 .993 .978 1.007	3.3 3.0 3.8 3.0 2.0 2.5 2.8 3.5 6.3 3.3 2.0 3.3 8.5 3.0 4.5 3.3	9.7 9.6 9.1 11.9 9.9 10.1 10.0 11.1 10.0 12.6 9.6 10.6 10.5 10.4 11.2 11.0 10.1
Coker 5110 Lockett BXL Deltapine 16 Lankart LX 571 Tamcot Sp 21 Westburn 70 Paymaster 18 Lankart 611 Lockett 4789A Dunn 119 Tamcot 788 Acala 1517-70 Stripper Cala S Paymaster 111A Paymaster 909 Gregg 35W Paymaster 202 Paymaster 303 Coker 310	92.4 95.5 90.1 121.7 101.9 101.6 98.3 109.9 95.0 129.6 99.4 99.8 101.7 105.3 113.0	107.2 109.6 105.5 128.9 114.5 114.3 111.8 120.3 109.3 134.4 112.6 112.9 114.2 116.9 122.7 122.6	1.026 1.007 1.015 .981 .995 1.017 1.020 .994 1.024 .971 .995 1.041 1.004 .969 .993	3.3 3.0 3.8 3.0 2.0 2.5 2.8 3.5 6.3 3.3 2.0 3.3 8.5 3.0 4.5	9.7 9.6 9.1 11.9 9.9 10.1 10.0 11.1 10.0 12.6 9.6 10.6 10.5 10.4 11.2 11.0

Table 62.--Plains test: Yield, boll, and spinning data for Altus, Okla.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	687 a	6.36	32.3	13.5	4.20
Westburn 70	623 ab	6.22	30.3	12.0	4.40
Lockett BXL	604 abc	6.12	31.4	15.0	4.40
Lankart LX 571	596 abc	7.36	33.3	13.5	4.85
Paymaster 202	592 abcd	7.24	30.3	15.0	4.65
Lankart 611	575 bcde	7.40	29.7	14.5	4.55
Tamcot 788	567 bcde	6.84	29.0	11.5	4.40
Paymaster 303	546 bcde	6.40	29.0	15.5	4.45
Dunn 119	527 bcdef	6.96	29.4	17.5	4.35
Coker 5110	508 cdef	5.96	29.0	14.5	4.45
Deltapine 16	494 defg	5.98	29.6	14.0	4.80
Paymaster 18	491 efgh	7.36	29.6	14.5	6.15
Stripper Cala S	480 efgh	6.64	27.3	14.5	4.75
Paymaster 909	438 fgh	6.86	32.4	14.5	5.30
Lockett 4789A	428 fgh	6.60	29.0	15.0	4.60
Paymaster 111A	405 gh	6.96	30.6	15.0	4.70
Coker 310	404 gh	6.66	31.0	16.0	4.40
Acala 1517-70	392 h	5.78	32.3	14.5	4.45
Gregg 35W	288 i	6.30	25.9	15.5	4.40
	Span length (imeter	Yarn
	2.5%	50%	R_{d}	Hunter's	tenacity
				b value	(cN/tex)
Tamcot Sp 21	1.15	0.53	73.8	9.7	12.6
Tamcot Sp 21 Westburn 70	1.15 1.12	0.53	73.8 72.8	9.7 10.1	12.6 11.9
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Westburn 70	1.12	.52	72.8	10.1	11.9
Westburn 70 Lockett BXL	1.12 1.12	.52 .55	72.8 70.1	10.1 9.3	11.9 12.7
Westburn 70 Lockett BXL Lankart LX 571	1.12 1.12 1.13	.52 .55 .55	72.8 70.1 71.7	10.1 9.3 9.5	11.9 12.7 11.7
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202	1.12 1.12 1.13 1.04	.52 .55 .55 .54	72.8 70.1 71.7 73.6	10.1 9.3 9.5 10.3	11.9 12.7 11.7 11.9
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611	1.12 1.12 1.13 1.04 1.06	.52 .55 .55 .54 .53	72.8 70.1 71.7 73.6 71.0	10.1 9.3 9.5 10.3 10.1	11.9 12.7 11.7 11.9 12.2
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303	1.12 1.13 1.04 1.06 1.16	.52 .55 .55 .54 .53	72.8 70.1 71.7 73.6 71.0 73.5	10.1 9.3 9.5 10.3 10.1 9.6	11.9 12.7 11.7 11.9 12.2 15.1
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119	1.12 1.13 1.04 1.06 1.16 1.10	.52 .55 .55 .54 .53 .55	72.8 70.1 71.7 73.6 71.0 73.5 74.2	10.1 9.3 9.5 10.3 10.1 9.6 10.2	11.9 12.7 11.7 11.9 12.2 15.1
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110	1.12 1.13 1.04 1.06 1.16 1.10 1.18	.52 .55 .55 .54 .53 .55 .49 .56	72.8 70.1 71.7 73.6 71.0 73.5 74.2 70.7	10.1 9.3 9.5 10.3 10.1 9.6 10.2 9.0	11.9 12.7 11.7 11.9 12.2 15.1 12.1
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16	1.12 1.13 1.04 1.06 1.16 1.10 1.18 1.21 1.19	.52 .55 .55 .54 .53 .55 .49	72.8 70.1 71.7 73.6 71.0 73.5 74.2 70.7 72.4	10.1 9.3 9.5 10.3 10.1 9.6 10.2 9.0 9.8	11.9 12.7 11.7 11.9 12.2 15.1 12.1 14.4 12.9
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18	1.12 1.13 1.04 1.06 1.16 1.10 1.18 1.21 1.19	.52 .55 .55 .54 .53 .55 .49 .56	72.8 70.1 71.7 73.6 71.0 73.5 74.2 70.7 72.4 75.0	10.1 9.3 9.5 10.3 10.1 9.6 10.2 9.0 9.8 9.7	11.9 12.7 11.7 11.9 12.2 15.1 12.1 14.4 12.9 12.5
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18 Stripper Cala S	1.12 1.13 1.04 1.06 1.16 1.10 1.18 1.21 1.19 .98 1.13	.52 .55 .55 .54 .53 .55 .49 .56 .54 .54	72.8 70.1 71.7 73.6 71.0 73.5 74.2 70.7 72.4 75.0 72.5	10.1 9.3 9.5 10.3 10.1 9.6 10.2 9.0 9.8 9.7 9.6	11.9 12.7 11.7 11.9 12.2 15.1 12.1 14.4 12.9 12.5 10.6
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18 Stripper Cala S Paymaster 909	1.12 1.13 1.04 1.06 1.16 1.10 1.18 1.21 1.19 .98 1.13 1.05	.52 .55 .55 .54 .53 .55 .49 .56 .54	72.8 70.1 71.7 73.6 71.0 73.5 74.2 70.7 72.4 75.0 72.5 71.8	10.1 9.3 9.5 10.3 10.1 9.6 10.2 9.0 9.8 9.7 9.6 10.1	11.9 12.7 11.7 11.9 12.2 15.1 12.1 14.4 12.9 12.5 10.6 12.4
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18 Stripper Cala S Paymaster 909 Lockett 4789A	1.12 1.13 1.04 1.06 1.16 1.10 1.18 1.21 1.19 .98 1.13 1.05 1.17	.52 .55 .55 .54 .53 .55 .49 .56 .54 .54 .49 .52	72.8 70.1 71.7 73.6 71.0 73.5 74.2 70.7 72.4 75.0 72.5 71.8 71.1	10.1 9.3 9.5 10.3 10.1 9.6 10.2 9.0 9.8 9.7 9.6 10.1 10.0	11.9 12.7 11.7 11.9 12.2 15.1 12.1 14.4 12.9 12.5 10.6 12.4 11.8
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18 Stripper Cala S Paymaster 909 Lockett 4789A Paymaster 111A	1.12 1.13 1.04 1.06 1.16 1.10 1.18 1.21 1.19 .98 1.13 1.05 1.17	.52 .55 .55 .54 .53 .55 .49 .56 .54 .54 .49 .52 .52	72.8 70.1 71.7 73.6 71.0 73.5 74.2 70.7 72.4 75.0 72.5 71.8 71.1 71.9	10.1 9.3 9.5 10.3 10.1 9.6 10.2 9.0 9.8 9.7 9.6 10.1 10.0 9.8	11.9 12.7 11.7 11.9 12.2 15.1 12.1 14.4 12.9 12.5 10.6 12.4 11.8 13.2
Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18 Stripper Cala S Paymaster 909 Lockett 4789A	1.12 1.13 1.04 1.06 1.16 1.10 1.18 1.21 1.19 .98 1.13 1.05 1.17	.52 .55 .55 .54 .53 .55 .49 .56 .54 .54 .49 .52	72.8 70.1 71.7 73.6 71.0 73.5 74.2 70.7 72.4 75.0 72.5 71.8 71.1 71.9 71.1	10.1 9.3 9.5 10.3 10.1 9.6 10.2 9.0 9.8 9.7 9.6 10.1 10.0 9.8 9.4	11.9 12.7 11.7 11.9 12.2 15.1 12.1 14.4 12.9 12.5 10.6 12.4 11.8 13.2 12.1

Table 63.--Plains test: Seed data for Altus, Okla.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Tamcot Sp 21	20.7	3.71	1.01	7.3	6.5
Westburn 70	18.8	3.62	• 95	11.1	6.0
Lockett BXL	19.4	3.68	.88	11.8	6.0
Lankart LX 571	18.0	3.60	•61	11.0	6.5
Paymaster 202	19.9	3.63	.79	10.6	6.0
Lankart 611	17.4	3.45	•72	14.2	5.0
Tamcot 788	19.6	3.74	•88	10.7	6.0
Paymaster 303	19.2	3.68	1.01	11.2	6.0
Dunn 119	18.6	3.73	.88	12.3	5.0
Coker 5110	19.7	3.70	1.06	13.0	5.0
Deltapine 16	19.9	3.51	.88	12.9	4.5
Paymaster 18	20.3	3.46	1.13	11.7	6.5
Stripper Cala S	19.9	3.83	•90	10.5	6.0
Paymaster 909	18.7	3.54	.83	12.9	5.0
Lockett 4789A	20.5	3.66	.88	12.8	5.0
Paymaster 111A	19.5	3.62	.77	13.3	5.5
Coker 310	19.6	3.69	.83	12.7	5.5
Acala 1517-70	20.5	3.43	•99	12.9	5.0
Meara 1517 / 0					
Gregg 35W	12 0	3 74	17	11 5	6 ()
Gregg 35W	18.9	3.74	.17	11.5	6.0
Gregg 35W	Seed	Seed	Seed	Floaters	Acid-
Gregg 35W	Seed volume	Seed surface	Seed density		Acid- delinted-
Gregg 35W	Seed	Seed	Seed	Floaters	Acid-
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Tamcot Sp 21	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Tamcot Sp 21 Westburn 70	Seed volume (mm ³) 115.4 111.8	Seed surface area (mm ²) 124.4 121.8	Seed density (g/cm ³) 1.067 1.039	Floaters (percent) 2.4 2.7	Acid-delinted-seed index
Tamcot Sp 21 Westburn 70 Lockett BXL	Seed volume (mm ³) 115.4 111.8 115.8	Seed surface area (mm ²) 124.4 121.8 124.7	Seed density (g/cm ³) 1.067 1.039 1.049	Floaters (percent) 2.4 2.7 4.5	Acid-delinted-seed index
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571	Seed volume (mm ³) 115.4 111.8 115.8 130.3	Seed surface area (mm ²) 124.4 121.8 124.7 134.8	Seed density (g/cm ³) 1.067 1.039 1.049 1.012	Floaters (percent) 2.4 2.7 4.5 4.5	Acid-delinted-seed index 12.3 11.6 12.2 13.2
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8	Seed surface area (mm ²) 124.4 121.8 124.7 134.8 126.8	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019	Floaters (percent) 2.4 2.7 4.5 4.5 11.0	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0	Seed surface area (mm ²) 124.4 121.8 124.7 134.8 126.8 132.6	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2	Seed surface area (mm ²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6	Seed surface area (mm ²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 12.0
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6 134.6	Seed surface area (mm ²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8 137.8	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063 1.018	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9 7.7	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 12.0 13.7
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6 134.6 100.3	Seed surface area (mm ²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8 137.8 113.3	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063 1.018 1.105	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9 7.7 4.1	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 12.0 13.7 11.1
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6 134.6 100.3 104.1	Seed surface area (mm ²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8 137.8 113.3 115.4	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063 1.018 1.105 1.076	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9 7.7 4.1 1.5	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 12.0 13.7 11.1 11.1
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Paymaster 18	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6 134.6 100.3 104.1 113.4	Seed surface area (mm²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8 137.8 113.3 115.4 122.9	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063 1.018 1.105 1.076 1.025	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9 7.7 4.1 1.5 4.0	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 12.0 13.7 11.1 11.1
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18 Stripper Cala S	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6 134.6 100.3 104.1 113.4 111.3	Seed surface area (mm ²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8 137.8 113.3 115.4 122.9 121.4	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063 1.018 1.105 1.076 1.025 1.070	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9 7.7 4.1 1.5 4.0 2.3	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 12.0 13.7 11.1 11.1 11.6 11.9
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18 Stripper Cala S Paymaster 909	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6 134.6 100.3 104.1 113.4 111.3 130.1	Seed surface area (mm²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8 137.8 113.3 115.4 122.9 121.4 134.7	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063 1.018 1.105 1.076 1.025 1.070 1.025	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9 7.7 4.1 1.5 4.0 2.3 5.8	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 12.0 13.7 11.1 11.6 11.9 13.3
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18 Stripper Cala S Paymaster 909 Lockett 4789A	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6 134.6 100.3 104.1 113.4 111.3 130.1	Seed surface area (mm ²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8 137.8 113.3 115.4 122.9 121.4 134.7 120.4	Seed density (g/cm³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063 1.018 1.105 1.076 1.025 1.070 1.025 1.088	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9 7.7 4.1 1.5 4.0 2.3 5.8 1.3	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 13.7 11.1 11.1 11.6 11.9 13.3 12.0
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18 Stripper Cala S Paymaster 909 Lockett 4789A Paymaster 111A	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6 134.6 100.3 104.1 113.4 111.3 130.1 110.0 120.3	Seed surface area (mm²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8 137.8 113.3 115.4 122.9 121.4 134.7 120.4 127.9	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063 1.018 1.105 1.076 1.025 1.070 1.025 1.088 1.033	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9 7.7 4.1 1.5 4.0 2.3 5.8 1.3 4.5	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 13.7 11.1 11.6 11.9 13.3 12.0 12.4
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Paymaster 18 Stripper Cala S Paymaster 909 Lockett 4789A Paymaster 111A Coker 310	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6 134.6 100.3 104.1 113.4 111.3 130.1 110.0 120.3 109.6	Seed surface area (mm²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8 137.8 113.3 115.4 122.9 121.4 134.7 120.4 127.9 120.0	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063 1.018 1.105 1.076 1.025 1.070 1.025 1.088 1.033 1.081	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9 7.7 4.1 1.5 4.0 2.3 5.8 1.3 4.5 5.3	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 12.0 13.7 11.1 11.1 11.6 11.9 13.3 12.0 12.4 11.9
Tamcot Sp 21 Westburn 70 Lockett BXL Lankart LX 571 Paymaster 202 Lankart 611 Tamcot 788 Paymaster 303 Dunn 119 Coker 5110 Deltapine 16 Stripper Cala S Paymaster 18 Stripper Cala S Paymaster 909 Lockett 4789A Paymaster 111A Coker 310 Acala 1517-70 Gregg 35W	Seed volume (mm ³) 115.4 111.8 115.8 130.3 118.8 127.0 122.2 114.6 134.6 100.3 104.1 113.4 111.3 130.1 110.0 120.3	Seed surface area (mm²) 124.4 121.8 124.7 134.8 126.8 132.6 129.1 123.8 137.8 113.3 115.4 122.9 121.4 134.7 120.4 127.9	Seed density (g/cm ³) 1.067 1.039 1.049 1.012 1.019 .978 .990 1.063 1.018 1.105 1.076 1.025 1.070 1.025 1.088 1.033	Floaters (percent) 2.4 2.7 4.5 4.5 11.0 9.5 1.0 1.9 7.7 4.1 1.5 4.0 2.3 5.8 1.3 4.5	Acid- delinted- seed index 12.3 11.6 12.2 13.2 12.1 12.4 12.0 13.7 11.1 11.6 11.9 13.3 12.0 12.4

Table 64.--Plains test: Yield, boll, and spinning data for Halfway, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Paymaster 303	612 a	6.12	37.7	12.5	4.90
Tamcot 788	576 ab	5.41	37.1	11.5	4.30
Dunn 119	538 abc	6.10	35.8	13.9	4.90
Tamcot Sp 21	533 abc	5.43	39.4	10.9	4.40
Lockett BXL	518 abcd	5.87	37.3	12.6	4.85
Gregg 35W	516 abcd	6.26	36.3	12.5	4.45
Paymaster 18	513 abcd	5.38	35.5	11.6	5.80
Paymaster 202	507 abcde	5.76	37.8	12.7	5.15
Coker 310	481 abcde	5.16	39.2	11.2	5.00
Lockett 4789A	480 abcde	5.81	39.0	11.2	5.15
Lankart 611	476 abcde	4.76	39.0	11.7	4.50
Paymaster 111A	452 abcde	7.04	36.6	12.9	4.80
Paymaster 909	434 bcde	5.59	39.6	13.2	5.50
Lankart LX 571	433 bcde	6.62	37.6	14.0	4.90
Westburn 70	429 bcde	4.25	37.0	11.8	4.60
Deltapine 16	392 cde	5.30	39.3	10.6	4.90
Stripper Cala S	381 cde	4.87	36.8	11.3	4.60
Coker 5110	367 de	4.92	39.3	10.6	4.85
Acala 1517-70	350 e	5.36	38.1	12.1	4.80
	Span length (inches)				
	Span length (inches)		imeter	Yarn
	Span length (inches) 50%		Hunter's	Yarn tenacity
			$\frac{\text{Color}}{R_d}$		
Paymaster 303				Hunter's	tenacity
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Tamcot 788	1.02	0.43	75.6	Hunter's b value	tenacity (cN/tex)
Tamcot 788	1.02 1.09	0.43 .47	75.6 76.6	Hunter's b value 11.2 11.0	tenacity (cN/tex) 10.5 12.7
Tamcot 788 788 Dunn 119 788 Tamcot Sp 21 788	1.02 1.09 1.11	0.43 .47 .51	75.6 76.6 76.2	Hunter's b value 11.2 11.0 10.7	tenacity (cN/tex) 10.5 12.7 12.5
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL	1.02 1.09 1.11 1.06	50% 0.43 .47 .51 .45	75.6 76.6 76.2 77.6	Hunter's b value 11.2 11.0 10.7 10.4	tenacity (cN/tex) 10.5 12.7 12.5 10.4
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W	1.02 1.09 1.11 1.06 1.05	50% 0.43 .47 .51 .45 .47	75.6 76.6 76.2 77.6 76.0	Hunter's b value 11.2 11.0 10.7 10.4 10.9	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0
Camcot 788 Counn 119 Camcot Sp 21 Cockett BXL Gregg 35W Paymaster 18	1.02 1.09 1.11 1.06 1.05 1.03	50% 0.43 .47 .51 .45 .47 .46	75.6 76.6 76.2 77.6 76.0 76.2	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202	1.02 1.09 1.11 1.06 1.05 1.03 .94	50% 0.43 .47 .51 .45 .47 .46 .44	75.6 76.6 76.2 77.6 76.0 76.2 76.0	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4 10.7	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9 9.3
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310	1.02 1.09 1.11 1.06 1.05 1.03 .94 .98 1.10	0.43 .47 .51 .45 .47 .46 .44 .45	75.6 76.6 76.2 77.6 76.0 76.2 76.0 76.3	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4 10.7 10.8	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9 9.3 9.7
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A	1.02 1.09 1.11 1.06 1.05 1.03 .94 .98 1.10 1.01	50% 0.43 .47 .51 .45 .47 .46 .44 .45 .47	75.6 76.6 76.2 77.6 76.0 76.2 76.0 76.3 75.4	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4 10.7 10.8 11.7	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9 9.3 9.7 11.0
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611	1.02 1.09 1.11 1.06 1.05 1.03 .94 .98 1.10 1.01	50% 0.43 .47 .51 .45 .47 .46 .44 .45 .47 .45	75.6 76.6 76.2 77.6 76.0 76.2 76.0 76.3 75.4 75.5 76.3	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4 10.7 10.8 11.7 11.1	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9 9.3 9.7 11.0 9.7
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A	1.02 1.09 1.11 1.06 1.05 1.03 .94 .98 1.10 1.01	50% 0.43 .47 .51 .45 .47 .46 .44 .45 .47	75.6 76.6 76.2 77.6 76.0 76.2 76.0 76.3 75.4 75.5	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4 10.7 10.8 11.7 11.1 11.3	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9 9.3 9.7 11.0 9.7 9.2
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A Paymaster 909	1.02 1.09 1.11 1.06 1.05 1.03 .94 .98 1.10 1.01 .98	50% 0.43 .47 .51 .45 .47 .46 .44 .45 .45 .47	75.6 76.6 76.2 77.6 76.0 76.2 76.0 76.3 75.4 75.5 76.3	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4 10.7 10.8 11.7 11.1 11.3 11.0	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9 9.3 9.7 11.0 9.7 9.2 10.9
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A Paymaster 909 Lankart LX 571	1.02 1.09 1.11 1.06 1.05 1.03 .94 .98 1.10 1.01 .98 1.04 .93 1.03	50% 0.43 .47 .51 .45 .47 .46 .44 .45 .47 .45 .47 .45 .47 .45	75.6 76.6 76.2 77.6 76.0 76.2 76.0 76.3 75.4 75.5 76.3 75.2 74.8	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4 10.7 10.8 11.7 11.1 11.3 11.0 12.2	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9 9.3 9.7 11.0 9.7 9.2 10.9 10.5
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A Paymaster 909 Lankart LX 571 Westburn 70	1.02 1.09 1.11 1.06 1.05 1.03 .94 .98 1.10 1.01 .98 1.04 .93 1.03 1.02	50% 0.43 .47 .51 .45 .47 .46 .44 .45 .47 .45 .47 .45 .45 .45	75.6 76.6 76.2 77.6 76.0 76.2 76.0 76.3 75.4 75.5 76.3 75.2 74.8 77.0 74.5	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4 10.7 10.8 11.7 11.1 11.3 11.0 12.2 11.6	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9 9.3 9.7 11.0 9.7 9.2 10.9 10.5 9.5
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A Paymaster 909 Lankart LX 571 Westburn 70 Deltapine 16	1.02 1.09 1.11 1.06 1.05 1.03 .94 .98 1.10 1.01 .98 1.04 .93 1.03 1.03 1.02 1.05	50% 0.43 .47 .51 .45 .47 .46 .44 .45 .47 .45 .45 .45 .45 .45	75.6 76.6 76.2 77.6 76.0 76.2 76.0 76.3 75.4 75.5 76.3 75.2 74.8 77.0 74.5 76.4	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4 10.7 10.8 11.7 11.1 11.3 11.0 12.2 11.6 11.4 11.8	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9 9.3 9.7 11.0 9.7 9.2 10.9 10.5 9.5 9.7
Paymaster 303 Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A Paymaster 909 Lankart LX 571 Westburn 70 Deltapine 16 Stripper Cala S Coker 5110	1.02 1.09 1.11 1.06 1.05 1.03 .94 .98 1.10 1.01 .98 1.04 .93 1.03 1.02	50% 0.43 .47 .51 .45 .47 .46 .44 .45 .47 .45 .47 .45 .45 .45	75.6 76.6 76.2 77.6 76.0 76.2 76.0 76.3 75.4 75.5 76.3 75.2 74.8 77.0 74.5	Hunter's b value 11.2 11.0 10.7 10.4 10.9 11.4 10.7 10.8 11.7 11.1 11.3 11.0 12.2 11.6 11.4	tenacity (cN/tex) 10.5 12.7 12.5 10.4 13.0 10.9 9.3 9.7 11.0 9.7 9.2 10.9 10.5 9.5 9.7 10.4

Table 65.--Plains test: Seed data for Halfway, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Paymaster 303	20.6	3.60	0.86	9.6	5.5
Tamcot 788	20.7	3.77	.80	6.1	6.0
Dunn 119	18.9	3.61	.86	10.3	4.5
Tamcot Sp 21	20.9	3.85	1.01	4.9	6.0
Lockett BXL	19.5	3.60	•94	9.8	5.5
Gregg 35W	19.2	3.77	.08	7.6	5.5
Paymaster 18	20.0	3.71	•96	6.6	6.5
Paymaster 202	19.5	3.87	.85	7.4	6.0
Coker 310	19.6	3.75	1.04	9.1	5.5
Lockett 4789A	20.2	3.85	.83	9.5	6.0
Lankart 611	16.9	3.51	.73	12.7	4.5
Paymaster 111A	18.7	3.56	.85	11.3	5.0
Paymaster 909	18.7	3.70	.76	8.5	5.5
Lankart LX 571	19.2	3.74	•67	6.9	6.5
Westburn 70	20.0	3.85	.91	4.5	7.0
Deltapine 16	20.0	3.59	.88	7.9	6.0
Stripper Cala S	19.5	3.87	.77	4.6	7.0
Coker 5110	19.4	3.85	1.04	7.9	6.0
Acala 1517-70	20.7	3.63	.84	9.5	4.5
neara 1517 70 *****	2007				
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
	^	^	Λ"	(percent)	
	(mm ³)	area (mm ²)	(g/cm ³)	(регосие)	seed index
Paymaster 303	(mm ³)	area (mm ²)	(g/cm ³)		· · · · · · · · · · · · · · · · · · ·
•	(mm ³) 110.4	area (mm ²)	(g/cm ³) 1.036	4.5	11.4
Tamcot 788	(mm ³) 110.4 100.8	area (mm ²) 120.8 113.6	(g/cm ³) 1.036 1.057	4.5 5.0	11.4 10.7
Tamcot 788 Dunn 119	(mm ³) 110.4 100.8 128.0	120.8 113.6 133.3	(g/cm ³) 1.036 1.057 .995	4.5 5.0 7.3	11.4 10.7 12.7
Tamcot 788 Dunn 119 Tamcot Sp 21	(mm ³) 110.4 100.8 128.0 103.1	120.8 113.6 133.3 115.4	(g/cm ³) 1.036 1.057 .995 1.029	4.5 5.0 7.3 3.8	11.4 10.7 12.7 10.6
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL	(mm ³) 110.4 100.8 128.0 103.1 109.7	120.8 113.6 133.3 115.4 120.1	(g/cm ³) 1.036 1.057 .995 1.029 1.019	4.5 5.0 7.3 3.8 4.5	11.4 10.7 12.7 10.6 11.1
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0	120.8 113.6 133.3 115.4 120.1 129.1	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966	4.5 5.0 7.3 3.8 4.5 9.0	11.4 10.7 12.7 10.6 11.1 11.8
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7	120.8 113.6 133.3 115.4 120.1 129.1 120.3	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002	4.5 5.0 7.3 3.8 4.5 9.0 8.8	11.4 10.7 12.7 10.6 11.1 11.8 11.0
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8	120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8	11.4 10.7 12.7 10.6 11.1 11.8 11.0
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8 98.7	area (mm ²) 120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6 111.9	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018 1.038	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8 2.8	11.4 10.7 12.7 10.6 11.1 11.8 11.0 11.8
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8 98.7 102.5	area (mm ²) 120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6 111.9 115.0	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018 1.038 1.038	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8 2.8 6.5	11.4 10.7 12.7 10.6 11.1 11.8 11.0 11.8
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8 98.7 102.5 115.9	area (mm ²) 120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6 111.9 115.0 124.2	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018 1.038 1.038 .947	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8 2.8 6.5 14.5	11.4 10.7 12.7 10.6 11.1 11.8 11.0 11.8 10.2 10.6 10.9
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8 98.7 102.5 115.9 112.1	area (mm ²) 120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6 111.9 115.0 124.2 122.0	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018 1.038 1.038 .947 1.034	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8 2.8 6.5 14.5 6.5	11.4 10.7 12.7 10.6 11.1 11.8 11.0 11.8 10.2 10.6 10.9 11.6
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A Paymaster 909	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8 98.7 102.5 115.9 112.1 117.3	area (mm ²) 120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6 111.9 115.0 124.2 122.0 125.8	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018 1.038 1.038 .947 1.034 .991	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8 2.8 6.5 14.5 6.5	11.4 10.7 12.7 10.6 11.1 11.8 11.0 11.8 10.2 10.6 10.9 11.6
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A Paymaster 909 Lankart LX 571	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8 98.7 102.5 115.9 112.1 117.3 133.9	area (mm ²) 120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6 111.9 115.0 124.2 122.0 125.8 137.4	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018 1.038 1.038 1.038 .947 1.034 .991 .975	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8 2.8 6.5 14.5 6.5	11.4 10.7 12.7 10.6 11.1 11.8 11.0 11.8 10.2 10.6 10.9 11.6 11.7
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A Paymaster 909 Lankart LX 571 Westburn 70	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8 98.7 102.5 115.9 112.1 117.3 133.9 108.0	area (mm ²) 120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6 111.9 115.0 124.2 122.0 125.8 137.4 119.0	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018 1.038 1.038 .947 1.034 .991 .975 1.060	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8 2.8 6.5 14.5 6.5 10.0 7.3 5.0	11.4 10.7 12.7 10.6 11.1 11.8 11.0 11.8 10.2 10.6 10.9 11.6 11.7 13.1
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A Paymaster 909 Lankart LX 571 Westburn 70 Deltapine 16	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8 98.7 102.5 115.9 112.1 117.3 133.9 108.0 93.8	area (mm ²) 120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6 111.9 115.0 124.2 122.0 125.8 137.4 119.0 108.3	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018 1.038 1.038 .947 1.034 .991 .975 1.060 1.035	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8 2.8 6.5 14.5 6.5 10.0 7.3 5.0 7.2	11.4 10.7 12.7 10.6 11.1 11.8 11.0 11.8 10.2 10.6 10.9 11.6 11.7 13.1 11.2 9.7
Tamcot 788 Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202 Coker 310 Lockett 4789A Lankart 611 Paymaster 111A Paymaster 909 Lankart LX 571 Westburn 70 Deltapine 16 Stripper Cala S	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8 98.7 102.5 115.9 112.1 117.3 133.9 108.0 93.8 104.8	120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6 111.9 115.0 124.2 122.0 125.8 137.4 119.0 108.3 116.6	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018 1.038 1.038 .947 1.034 .991 .975 1.060 1.035 1.025	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8 2.8 6.5 14.5 6.5 10.0 7.3 5.0 7.2 7.6	11.4 10.7 12.7 10.6 11.1 11.8 11.0 11.8 10.2 10.6 10.9 11.6 11.7 13.1 11.2 9.7
Dunn 119 Tamcot Sp 21 Lockett BXL Gregg 35W Paymaster 18 Paymaster 202	(mm ³) 110.4 100.8 128.0 103.1 109.7 122.0 109.7 115.8 98.7 102.5 115.9 112.1 117.3 133.9 108.0 93.8	area (mm ²) 120.8 113.6 133.3 115.4 120.1 129.1 120.3 124.6 111.9 115.0 124.2 122.0 125.8 137.4 119.0 108.3	(g/cm ³) 1.036 1.057 .995 1.029 1.019 .966 1.002 1.018 1.038 1.038 .947 1.034 .991 .975 1.060 1.035	4.5 5.0 7.3 3.8 4.5 9.0 8.8 6.8 2.8 6.5 14.5 6.5 10.0 7.3 5.0 7.2	11.4 10.7 12.7 10.6 11.1 11.8 11.0 11.8 10.2 10.6 10.9 11.6 11.7 13.1 11.2 9.7

Table 66.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex. (irrigated)

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Tamcot Sp 21	521 a	6.11	35.2	11.8	4.00
Lockett 4789A	511 a	6.32	31.9	12.6	4.25
Paymaster 18	478 ab	5.67	33.5	11.9	5.50
Lockett BXL	473 ab	5.47	35.5	11.8	4.50
Westburn 70	472 ab	5.96	34.5	12.2	4.30
Tamcot 788	461 abc	6.30	32.9	12.0	3.90
Deltapine 16	450 abcd	4.82	35.9	10.8	4.45
Lankart 611	444 abcd	6.89	34.9	13.7	4.25
Paymaster 303	443 abcd	5.78	34.2	12.0	4.10
Dunn 119	441 abcd	6.44	31.2	13.8	4.00
Coker 5110	422 bcd	5.37	34.4	11.4	4.00
Coker 310	422 bcd	5.07	34.1	11.4	4.00
Lankart LX 571	415 bcd	6.72	34.8	13.4	4.50
Stripper Cala S	404 bcd	5.84	31.4	12.1	3.95
Acala 1517-70	399 bcd	5.30	33.5	12.6	3.85
Paymaster 909	393 bcd	6.21	36.6	12.3	4.60
Paymaster 111A	375 cd	6.48	33.9	12.1	4.45
Paymaster 202	366 d	6.50	34.4	12.5	4.65
Gregg 35W	222 e	5.11	35.0	11.5	4.15
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity
			а	b value	(cN/tex)
Tamcot Sp 21	1.11	0.52	70.9	9.1	12.4
Lockett 4789A	1.11	.52	69.2	9.2	13.0
Paymaster 18	.97	.46	69.2	9.2	10.6
Lockett BXL	1.06	.49	66.7	9.4	13.0
Westburn 70	1.08	.50	69.3	9.7	12.8
Westburn 70 Tamcot 788	1.08 1.11	.50 .50	69.3 68.1	9.7 9.3	12.8 13.8
Westburn 70 Tamcot 788 Deltapine 16	1.08 1.11 1.11	.50 .50 .50	69.3 68.1 69.7	9.7 9.3 9.7	12.8 13.8 12.5
Westburn 70 Tamcot 788 Deltapine 16 Lankart 611	1.08 1.11 1.11 1.03	.50 .50 .50 .48	69.3 68.1 69.7 68.7	9.7 9.3 9.7 9.6	12.8 13.8 12.5 11.3
Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303	1.08 1.11 1.11 1.03 1.04	.50 .50 .50 .48 .46	69.3 68.1 69.7 68.7 68.8	9.7 9.3 9.7 9.6 9.8	12.8 13.8 12.5 11.3 11.9
Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119	1.08 1.11 1.11 1.03 1.04 1.11	.50 .50 .50 .48 .46	69.3 68.1 69.7 68.7 68.8 66.1	9.7 9.3 9.7 9.6 9.8 8.3	12.8 13.8 12.5 11.3 11.9
Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110	1.08 1.11 1.11 1.03 1.04 1.11	.50 .50 .50 .48 .46 .49	69.3 68.1 69.7 68.7 68.8 66.1 65.6	9.7 9.3 9.7 9.6 9.8 8.3 9.0	12.8 13.8 12.5 11.3 11.9 14.9
Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Çoker 310	1.08 1.11 1.11 1.03 1.04 1.11 1.12 1.17	.50 .50 .50 .48 .46 .49 .47	69.3 68.1 69.7 68.7 68.8 66.1 65.6 68.4	9.7 9.3 9.7 9.6 9.8 8.3 9.0 9.6	12.8 13.8 12.5 11.3 11.9 14.9 13.0
Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Çoker 310 Lankart LX 571	1.08 1.11 1.11 1.03 1.04 1.11 1.12 1.17	.50 .50 .50 .48 .46 .49 .47	69.3 68.1 69.7 68.7 68.8 66.1 65.6 68.4	9.7 9.3 9.7 9.6 9.8 8.3 9.0 9.6 9.2	12.8 13.8 12.5 11.3 11.9 14.9 13.0 13.1 12.0
Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Çoker 310 Lankart LX 571 Stripper Cala S	1.08 1.11 1.11 1.03 1.04 1.11 1.12 1.17 1.07 1.08	.50 .50 .50 .48 .46 .49 .47	69.3 68.1 69.7 68.7 68.8 66.1 65.6 68.4 68.1	9.7 9.3 9.7 9.6 9.8 8.3 9.0 9.6 9.2 9.8	12.8 13.8 12.5 11.3 11.9 14.9 13.0 13.1 12.0 12.9
Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Çoker 310 Lankart LX 571 Stripper Cala S Acala 1517-70	1.08 1.11 1.11 1.03 1.04 1.11 1.12 1.17 1.07 1.08 1.09	.50 .50 .48 .46 .49 .47 .51 .49	69.3 68.1 69.7 68.7 68.8 66.1 65.6 68.4 68.1 67.7 68.9	9.7 9.3 9.7 9.6 9.8 8.3 9.0 9.6 9.2 9.8 9.9	12.8 13.8 12.5 11.3 11.9 14.9 13.0 13.1 12.0 12.9 14.9
Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Çoker 310 Lankart LX 571 Stripper Cala S Acala 1517-70 Paymaster 909	1.08 1.11 1.11 1.03 1.04 1.11 1.12 1.17 1.07 1.08 1.09 .98	.50 .50 .48 .46 .49 .47 .51 .49 .48	69.3 68.1 69.7 68.7 68.8 66.1 65.6 68.4 68.1 67.7 68.9 66.6	9.7 9.3 9.7 9.6 9.8 8.3 9.0 9.6 9.2 9.8 9.9	12.8 13.8 12.5 11.3 11.9 14.9 13.0 13.1 12.0 12.9 14.9 12.8
Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Çoker 310 Lankart LX 571 Stripper Cala S Acala 1517-70	1.08 1.11 1.11 1.03 1.04 1.11 1.12 1.17 1.07 1.08 1.09	.50 .50 .48 .46 .49 .47 .51 .49	69.3 68.1 69.7 68.7 68.8 66.1 65.6 68.4 68.1 67.7 68.9	9.7 9.3 9.7 9.6 9.8 8.3 9.0 9.6 9.2 9.8 9.9	12.8 13.8 12.5 11.3 11.9 14.9 13.0 13.1 12.0 12.9 14.9

Table 67.--Plains test: Seed data for Chillicothe, Tex. (irrigated)

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Tamcot Sp 21	18.7	3.76	0.80	5.5	6.5
Lockett 4789A	17.9	3.52	.81	9.9	5.0
Paymaster 18	18.2	3.65	.81	8.1	6.0
Lockett BXL	17.6	3.66	•73	8.6	6.0
Westburn 70	17.3	3.81	.87	7.9	6.5
Tamcot 788	18.4	3.49	•62	9.4	5.0
Deltapine 16	17.4	3.50	.87	8.6	5.5
Lankart 611	15.4	3.34	•65	13.8	2.5
Paymaster 303	17.9	3.62	•72	10.8	5.5
Dunn 119	16.6	3.58	•72	11.0	4.0
Coker 5110	17.3	3.67	.78	10.0	4.5
Coker 310	17.2	3.56	•90	12.5	4.5
Lankart LX 571	16.7	3.53	•59	8.7	6.0
Stripper Cala S	17.2	3.63	•64	8.3	6.0
Acala 1517-70	18.0	3.45	•91	12.1	2.5
Paymaster 909	16.4	3.60	.75	8.8	5.5
Paymaster 111A	17.3	3.51	.64	10.3	5.0
Paymaster 202	17.7	3.72	•64	7.0	6.0
Gregg 35W	16.6	3.69	• 20	7.4	6.0
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
	(mm^3)	area (mm²)	(g/cm ³)		seed index
Tamcot Sp 21	113.4	123.0	0.967	3.0	10.9
Tamcot Sp 21 Lockett 4789A		123.0 127.3	0.967 .968	3.0 3.0	10.9 10.9
Lockett 4789A	113.4				
Lockett 4789A Paymaster 18	113.4 119.5	127.3	.968	3.0	10.9
Lockett 4789A Paymaster 18 Lockett BXL	113.4 119.5 118.1	127.3 126.3	.968 .950	3.0 6.8	10.9 10.6
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70	113.4 119.5 118.1 114.1	127.3 126.3 123.4	.968 .950 .958	3.0 6.8 7.5	10.9 10.6 10.2
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788	113.4 119.5 118.1 114.1 109.2	127.3 126.3 123.4 109.9	.968 .950 .958 .986	3.0 6.8 7.5 4.0	10.9 10.6 10.2 10.6
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788 Deltapine 16	113.4 119.5 118.1 114.1 109.2 110.4	127.3 126.3 123.4 109.9 120.8	.968 .950 .958 .986	3.0 6.8 7.5 4.0 6.5	10.9 10.6 10.2 10.6 10.5
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788 Deltapine 16 Lankart 611	113.4 119.5 118.1 114.1 109.2 110.4 100.7	127.3 126.3 123.4 109.9 120.8 113.6	.968 .950 .958 .986 .962	3.0 6.8 7.5 4.0 6.5 4.5	10.9 10.6 10.2 10.6 10.5 9.4 11.4
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303	113.4 119.5 118.1 114.1 109.2 110.4 100.7 138.7	127.3 126.3 123.4 109.9 120.8 113.6 140.6	.968 .950 .958 .986 .962 1.004	3.0 6.8 7.5 4.0 6.5 4.5	10.9 10.6 10.2 10.6 10.5 9.4
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119	113.4 119.5 118.1 114.1 109.2 110.4 100.7 138.7 111.3	127.3 126.3 123.4 109.9 120.8 113.6 140.6 121.5	.968 .950 .958 .986 .962 1.004 .870	3.0 6.8 7.5 4.0 6.5 4.5 17.3 6.8	10.9 10.6 10.2 10.6 10.5 9.4 11.4 10.5
•	113.4 119.5 118.1 114.1 109.2 110.4 100.7 138.7 111.3	127.3 126.3 123.4 109.9 120.8 113.6 140.6 121.5 136.2	.968 .950 .958 .986 .962 1.004 .870 .953	3.0 6.8 7.5 4.0 6.5 4.5 17.3 6.8 16.5	10.9 10.6 10.2 10.6 10.5 9.4 11.4 10.5
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Coker 310	113.4 119.5 118.1 114.1 109.2 110.4 100.7 138.7 111.3 132.2 107.9	127.3 126.3 123.4 109.9 120.8 113.6 140.6 121.5 136.2 118.8	.968 .950 .958 .986 .962 1.004 .870 .953 .891	3.0 6.8 7.5 4.0 6.5 4.5 17.3 6.8 16.5 8.5	10.9 10.6 10.2 10.6 10.5 9.4 11.4 10.5 11.8
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Lankart LX 571	113.4 119.5 118.1 114.1 109.2 110.4 100.7 138.7 111.3 132.2 107.9 101.0	127.3 126.3 123.4 109.9 120.8 113.6 140.6 121.5 136.2 118.8 113.8	.968 .950 .958 .986 .962 1.004 .870 .953 .891 .960	3.0 6.8 7.5 4.0 6.5 4.5 17.3 6.8 16.5 8.5	10.9 10.6 10.2 10.6 10.5 9.4 11.4 10.5 11.8 9.7 9.5
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Coker 310 Lankart LX 571 Stripper Cala S	113.4 119.5 118.1 114.1 109.2 110.4 100.7 138.7 111.3 132.2 107.9 101.0 132.7 113.2	127.3 126.3 123.4 109.9 120.8 113.6 140.6 121.5 136.2 118.8 113.8 136.6 122.8	.968 .950 .958 .986 .962 1.004 .870 .953 .891 .960 1.001 .900	3.0 6.8 7.5 4.0 6.5 4.5 17.3 6.8 16.5 8.5 8.8	10.9 10.6 10.2 10.6 10.5 9.4 11.4 10.5 11.8 9.7 9.5 11.7
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Coker 310 Lankart LX 571 Stripper Cala S Acala 1517-70	113.4 119.5 118.1 114.1 109.2 110.4 100.7 138.7 111.3 132.2 107.9 101.0 132.7 113.2 117.9	127.3 126.3 123.4 109.9 120.8 113.6 140.6 121.5 136.2 118.8 113.8 136.6 122.8 126.2	.968 .950 .958 .986 .962 1.004 .870 .953 .891 .960 1.001 .900 .961	3.0 6.8 7.5 4.0 6.5 4.5 17.3 6.8 16.5 8.5 8.8 11.8 3.8 9.8	10.9 10.6 10.2 10.6 10.5 9.4 11.4 10.5 11.8 9.7 9.5 11.7 10.8 10.9
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110 Coker 310 Lankart LX 571 Stripper Cala S Acala 1517-70 Paymaster 909	113.4 119.5 118.1 114.1 109.2 110.4 100.7 138.7 111.3 132.2 107.9 101.0 132.7 113.2 117.9 117.8	127.3 126.3 123.4 109.9 120.8 113.6 140.6 121.5 136.2 118.8 113.8 136.6 122.8 126.2 126.1	.968 .950 .958 .986 .962 1.004 .870 .953 .891 .960 1.001 .900 .961 .986	3.0 6.8 7.5 4.0 6.5 4.5 17.3 6.8 16.5 8.5 8.8 11.8 3.8 9.8 7.0	10.9 10.6 10.2 10.6 10.5 9.4 11.4 10.5 11.8 9.7 9.5 11.7 10.8 10.9
Lockett 4789A Paymaster 18 Lockett BXL Westburn 70 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 303 Dunn 119 Coker 5110	113.4 119.5 118.1 114.1 109.2 110.4 100.7 138.7 111.3 132.2 107.9 101.0 132.7 113.2 117.9	127.3 126.3 123.4 109.9 120.8 113.6 140.6 121.5 136.2 118.8 113.8 136.6 122.8 126.2	.968 .950 .958 .986 .962 1.004 .870 .953 .891 .960 1.001 .900 .961	3.0 6.8 7.5 4.0 6.5 4.5 17.3 6.8 16.5 8.5 8.8 11.8 3.8 9.8	10.9 10.6 10.2 10.6 10.5 9.4 11.4 10.5 11.8 9.7 9.5 11.7 10.8 10.9

Table 68.--Plains test: Yield, boll, and spinning data for Mangum, Okla.

riety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
ymaster 18	486 a	5.88	33.7	13.5	4.90
ker 5110	461 ab	5.84	33.3	13.5	4.50
inkart LX 571	440 abc	6.80	32.1	14.5	5.10
ker 310	434 abc	6.12	34.8	11.5	4.80
estburn 70	411 abc	5.62	32.2	11.0	6.00
mcot 788	407 abc	5.82	32.6	11.5	3.90
lymaster 202	402 abc	6.24	35.0	13.5	4.75
inkart 611	391 abc	7.66	33.2	14.5	4.85
nymaster 303	380 abc	6.04	32.6	11.5	4.50
ripper Cala S	376 abc	6.14	34.1	11.5	4.25
mcot Sp 21	362 bc	6.20	33.1	12.0	4.70
nkart BXL	345 cd	6.10	32.5	13.0	4.60
ymaster 909	333 cde	5.72	29.6	14.0	4.40
eltapine 16	333 cde	5.50	34.7	11.5	4.60
ymaster 111A	242 def	7.14	30.4	14.5	4.85
ınn 119	236 def	5.60	29.9	14.0	4.50
ala 1517-70	233 ef	6.30	34.1	13.0	4.60
ckett 4789A	200 f	6.50	33.5	14.0	4.60
regg 35W	155 f	6.16	31.8	13.5	4.40
	Span length (inches)		imeter	Yarn
			-		
	2.5%	50%	$R_{\overline{\mathcal{A}}}$	Hunter's	tenacity
	2.5%	50%	R_{d}	Hunter's b value	tenacity (cN/tex)
ymaster 18	1.13	0.52	$\frac{R_d}{70.8}$		
ymaster 18 ker 5110				b value	(cN/tex)
	1.13	0.52	70.8	<i>b</i> value 9.0	(cN/tex)
ker 5110	1.13 1.20	0.52	70.8 68.4	<i>b</i> value 9.0 10.1	(cN/tex) 12.3 12.8
oker 5110 nkart LX 571	1.13 1.20 1.11	0.52 .52 .53	70.8 68.4 70.0	9.0 10.1 9.7	(cN/tex) 12.3 12.8 11.6
oker 5110 onkart LX 571 oker 310 estburn 70	1.13 1.20 1.11 1.21	0.52 .52 .53 .55	70.8 68.4 70.0 70.1	9.0 10.1 9.7 8.5	(cN/tex) 12.3 12.8 11.6 13.5
ker 5110	1.13 1.20 1.11 1.21 .96 1.14	0.52 .52 .53 .55	70.8 68.4 70.0 70.1 71.1	9.0 10.1 9.7 8.5 8.9	(cN/tex) 12.3 12.8 11.6 13.5 9.2
oker 5110 oker 310 oker 310 estburn 70 mcot 788 aymaster 202	1.13 1.20 1.11 1.21 .96	0.52 .52 .53 .55 .48	70.8 68.4 70.0 70.1 71.1 74.3	9.0 10.1 9.7 8.5 8.9 9.2	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7
oker 5110 nkart LX 571 oker 310 estburn 70 nmcot 788 nymaster 202 nkart 611	1.13 1.20 1.11 1.21 .96 1.14 1.02	0.52 .52 .53 .55 .48 .52	70.8 68.4 70.0 70.1 71.1 74.3 72.3	9.0 10.1 9.7 8.5 8.9 9.2 9.1	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7 11.3
oker 5110 oker 310 oker 310 estburn 70 mcot 788 oymaster 202 onkart 611 oymaster 303	1.13 1.20 1.11 1.21 .96 1.14 1.02 1.04 1.09	0.52 .52 .53 .55 .48 .52 .49 .49	70.8 68.4 70.0 70.1 71.1 74.3 72.3 70.5 68.6	9.0 10.1 9.7 8.5 8.9 9.2 9.1 9.0	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7 11.3 10.9
oker 5110 oker 5110 oker 310 estburn 70 mmcot 788 symaster 202 okart 611 symaster 303 cripper Cala S	1.13 1.20 1.11 1.21 .96 1.14 1.02 1.04 1.09 1.13	0.52 .52 .53 .55 .48 .52 .49 .49	70.8 68.4 70.0 70.1 71.1 74.3 72.3 70.5	9.0 10.1 9.7 8.5 8.9 9.2 9.1 9.0 9.1	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7 11.3 10.9 11.0
oker 5110 oker 310 oke	1.13 1.20 1.11 1.21 .96 1.14 1.02 1.04 1.09 1.13 1.14	0.52 .52 .53 .55 .48 .52 .49 .49 .50	70.8 68.4 70.0 70.1 71.1 74.3 72.3 70.5 68.6 72.3 73.2	9.0 10.1 9.7 8.5 8.9 9.2 9.1 9.0 9.1	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7 11.3 10.9 11.0 13.1
oker 5110 oker 310 oker 310 estburn 70 mxcot 788 oymaster 202 oymaster 303 cripper Cala S omcot Sp 21 onkart BXL	1.13 1.20 1.11 1.21 .96 1.14 1.02 1.04 1.09 1.13 1.14	0.52 .52 .53 .55 .48 .52 .49 .49 .50	70.8 68.4 70.0 70.1 71.1 74.3 72.3 70.5 68.6 72.3 73.2 72.6	9.0 10.1 9.7 8.5 8.9 9.2 9.1 9.0 9.1	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7 11.3 10.9 11.0 13.1 11.4
oker 5110 oker 310 estburn 70 mxcot 788 oymaster 202 oxymaster 303 cripper Cala S mxcot Sp 21 oxymaster BXL oxymaster 909	1.13 1.20 1.11 1.21 .96 1.14 1.02 1.04 1.09 1.13 1.14 1.12	0.52 .52 .53 .55 .48 .52 .49 .49 .50 .51	70.8 68.4 70.0 70.1 71.1 74.3 72.3 70.5 68.6 72.3 73.2 72.6	9.0 10.1 9.7 8.5 8.9 9.2 9.1 9.0 9.1 9.1 10.1 8.9 9.0	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7 11.3 10.9 11.0 13.1 11.4 12.7 13.3
oker 5110 oker 310 ok	1.13 1.20 1.11 1.21 .96 1.14 1.02 1.04 1.09 1.13 1.14 1.12 1.07	0.52 .52 .53 .55 .48 .52 .49 .49 .50 .51 .54	70.8 68.4 70.0 70.1 71.1 74.3 72.3 70.5 68.6 72.3 73.2 72.6 72.6 64.7	9.0 10.1 9.7 8.5 8.9 9.2 9.1 9.0 9.1 9.1 10.1 8.9 9.0 11.8	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7 11.3 10.9 11.0 13.1 11.4 12.7 13.3 12.8
oker 5110 oker 310 oker 310 estburn 70 moot 788 oymaster 202 oxymaster 303 oxymaster 303 oxymaster Sp 21 oxymaster BXL oxymaster 909 oxymaster 111A	1.13 1.20 1.11 1.21 .96 1.14 1.02 1.04 1.09 1.13 1.14 1.12 1.07 1.17	0.52 .52 .53 .55 .48 .52 .49 .49 .50 .51 .54 .50	70.8 68.4 70.0 70.1 71.1 74.3 72.3 70.5 68.6 72.3 73.2 72.6 64.7 71.5	9.0 10.1 9.7 8.5 8.9 9.2 9.1 9.0 9.1 9.1 10.1 8.9 9.0	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7 11.3 10.9 11.0 13.1 11.4 12.7 13.3 12.8 13.0
oker 5110 oker 310 ok	1.13 1.20 1.11 1.21 .96 1.14 1.02 1.04 1.09 1.13 1.14 1.12 1.07 1.17	0.52 .52 .53 .55 .48 .52 .49 .49 .50 .51 .54 .50 .47	70.8 68.4 70.0 70.1 71.1 74.3 72.3 70.5 68.6 72.3 73.2 72.6 64.7 71.5 68.4	9.0 10.1 9.7 8.5 8.9 9.2 9.1 9.0 9.1 9.1 10.1 8.9 9.0 11.8 9.2	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7 11.3 10.9 11.0 13.1 11.4 12.7 13.3 12.8 13.0 13.6
oker 5110 oker 310 oker 310 estburn 70 moot 788 oymaster 202 oxymaster 303 oxymaster 303 oxymaster Sp 21 oxymaster BXL oxymaster 909 oxymaster 111A	1.13 1.20 1.11 1.21 .96 1.14 1.02 1.04 1.09 1.13 1.14 1.12 1.07 1.17	0.52 .52 .53 .55 .48 .52 .49 .49 .50 .51 .54 .50	70.8 68.4 70.0 70.1 71.1 74.3 72.3 70.5 68.6 72.3 73.2 72.6 64.7 71.5	9.0 10.1 9.7 8.5 8.9 9.2 9.1 9.0 9.1 9.1 10.1 8.9 9.0	(cN/tex) 12.3 12.8 11.6 13.5 9.2 12.7 11.3 10.9 11.0 13.1 11.4 12.7 13.3 12.8 13.0

Table 69.--Plains test: Seed data for Mangum, Okla.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Paymaster 18	20.8	3.15	0.78	12.3	6.0
Coker 5110	21.1	3.27	• 94	13.7	5.5
Lankart LX 571	20.4	3.20	•60	12.1	6.0
Coker 310	21.3	3.11	1.41	14.6	6.0
Westburn 70	21.8	3.32	1.35	9.9	6.0
Tamcot 788	22.0	2.97	1.34	9.0	5.5
Paymaster 202	20.7	3.25	1.14	11.2	6.0
Lankart 611	18.7	3.28	.72	15.8	5.0
Paymaster 303	21.7	2.99	1.12	14.5	5.0
Stripper Cala S	20.3	3.28	1.16	13.6	6.0
Tamcot Sp 21	20.5	3.23	1.28	10.7	7.0
Lockett BXL	20.9	3.19	.78	12.1	6.0
Paymaster 909	21.3	3.13	.76	11.0	5.0
Deltapine 16	21.1	2.99	.87	14.1	5.0
Paymaster 111A	20.9	3.09	1.01	13.2	5.0
Dunn 119	19.2	3.44	1.10	13.2	5.0
Acala 1517-70	21.5	2.92	1.10	15.2	4.5
Lockett 4789A	19.1	3.38	.63	12.8	5.0
Gregg 35W	18.9	3.43	.10	12.3	5.0
01066 3311 111111111		J • • • • • • • • • • • • • • • • • • •	• 1 0		
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
	(mm ³)	area (mm ²)	(g/cm ³)		seed index
Paymaster 18	112.1	122.0	1.080	4.0	12.1
Coker 5110	100.6	113.5	1.091	2.8	11.0
Lankart LX 571	136.1	138.8	1.007	5.8	13.8
Coker 310	91.9	106.8	1.137	2.6	10.5
Westburn 70	107.3	118.5	1.083	4.7	11.6
Tamcot 788	109.1	119.8	1.068	1.3	11.7
Paymaster 202	127.1	132.6	1.010	7.5	12.8
· · ·	131.0	135.3	1.009	5.7	13.2
Lankari nii					1042
	109.1			5.7	11.5
Paymaster 303	109.1	119.8	1.054	5.7	11.5
Paymaster 303 Stripper Cala S	94.8	119.8 109.1	1.054 1.128	3.6	10.7
Paymaster 303 Stripper Cala S Tamcot Sp 21	94.8 112.1	119.8 109.1 122.0	1.054 1.128 1.046	3.6 5.7	10.7 11.7
Paymaster 303 Stripper Cala S Tamcot Sp 21 Lockett BXL	94.8 112.1 108.4	119.8 109.1 122.0 119.3	1.054 1.128 1.046 1.078	3.6 5.7 3.2	10.7 11.7 11.7
Paymaster 303 Stripper Cala S Tamcot Sp 21 Lockett BXL Paymaster 909	94.8 112.1 108.4 108.4	119.8 109.1 122.0 119.3 119.3	1.054 1.128 1.046 1.078 1.165	3.6 5.7 3.2 6.3	10.7 11.7 11.7 11.9
Paymaster 303 Stripper Cala S Tamcot Sp 21 Lockett BXL Paymaster 909 Deltapine 16	94.8 112.1 108.4 108.4 97.8	119.8 109.1 122.0 119.3 119.3	1.054 1.128 1.046 1.078 1.165 1.089	3.6 5.7 3.2 6.3 3.3	10.7 11.7 11.7 11.9 10.7
Paymaster 303 Stripper Cala S Tamcot Sp 21 Lockett BXL Paymaster 909 Deltapine 16 Paymaster 111A	94.8 112.1 108.4 108.4 97.8 121.8	119.8 109.1 122.0 119.3 119.3 111.4	1.054 1.128 1.046 1.078 1.165 1.089	3.6 5.7 3.2 6.3 3.3	10.7 11.7 11.7 11.9 10.7
Paymaster 303 Stripper Cala S Tamcot Sp 21 Lockett BXL Paymaster 909 Deltapine 16 Paymaster 111A Dunn 119	94.8 112.1 108.4 108.4 97.8 121.8 124.0	119.8 109.1 122.0 119.3 119.3 111.4 129.0 130.5	1.054 1.128 1.046 1.078 1.165 1.089 1.084 1.019	3.6 5.7 3.2 6.3 3.3 1.0	10.7 11.7 11.7 11.9 10.7 13.2 12.6
Lockett BXL Paymaster 909 Deltapine 16 Paymaster 111A Dunn 119 Acala 1517-70	94.8 112.1 108.4 108.4 97.8 121.8 124.0 112.6	119.8 109.1 122.0 119.3 119.3 111.4 129.0 130.5	1.054 1.128 1.046 1.078 1.165 1.089 1.084 1.019	3.6 5.7 3.2 6.3 3.3 1.0 11.6 6.8	10.7 11.7 11.7 11.9 10.7 13.2 12.6 12.1
Paymaster 303 Stripper Cala S Tamcot Sp 21 Lockett BXL Paymaster 909 Deltapine 16 Paymaster 111A	94.8 112.1 108.4 108.4 97.8 121.8 124.0	119.8 109.1 122.0 119.3 119.3 111.4 129.0 130.5	1.054 1.128 1.046 1.078 1.165 1.089 1.084 1.019	3.6 5.7 3.2 6.3 3.3 1.0	10.7 11.7 11.7 11.9 10.7 13.2 12.6

Table 70.--Plains test: Yield, boll, and spinning data for Chickasha, Okla. (irrigated)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Paymaster 18	441 a	6.46	35.5	12.5	4.75
Westburn 70	431 ab	6.48	31.8	12.5	6.35
Tamcot Sp 21	376 abc	7.58	33.7	13.5	5.10
Tamcot 788	368 bcd	7.08	35.2	12.5	4.65
Deltapine 16	337 cde	6.84	33.9	12.0	5.25
Lankart 611	316 cdef	8.50	33.9	14.0	4.90
Paymaster 202	303 defg	7.96	30.1	12.5	5.10
Lankart LX 571	283 efgh	8.42	32.4	14.0	5.45
Paymaster 303	282 efgh	7.02	33.8	11.5	5.25
Lockett BXL	273 efgh	7.16	29.1	13.0	5.05
Stripper Cala S	271 efgh	7.42	33.5	13.5	4.40
Paymaster 111A	266 efgh	8.42	31.6	11.0	4.80
Coker 5110	258 fghi	7.52	35.7	13.0	5.15
Coker 310	244 ghij	7.48	36.7	12.5	5.10
Acala 1517-70	219 hij	6.94	33.2	13.5	4.50
Dunn 119	192 ijk	7.18	29.3	14.0	4.45
Paymaster 909	179 jk	7.20	29.4	14.0	4.70
Lockett 4789A	125 k1	7.68	32.8	14.5	5.30
Gregg 35W	99 1	6.56	33.3	13.0	4.50
		inches)		imeter	Yarn
	Span length (2.5%	inches) 50%		imeter Hunter's	tenacity
			$\frac{\text{Color}}{R_d}$		
Paymaster 18				Hunter's	tenacity
Paymaster 18 Westburn 70	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Westburn 70	1.13 .95	50% 0.54 .48	72.9	Hunter's b value	tenacity (cN/tex)
Westburn 70 Tamcot Sp 21	1.13	0.54	72.9 71.8	Hunter's b value 9.6 10.1	tenacity (cN/tex) 12.5 10.2
Westburn 70 Tamcot Sp 21 Tamcot 788	1.13 .95 1.11	50% 0.54 .48 .54	72.9 71.8 72.5	Hunter's b value 9.6 10.1 10.2	tenacity (cN/tex) 12.5 10.2 12.1
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16	1.13 .95 1.11 1.13	0.54 .48 .54 .53	72.9 71.8 72.5 75.0	Hunter's b value 9.6 10.1 10.2 9.4	tenacity (cN/tex) 12.5 10.2 12.1 12.2
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611	1.13 .95 1.11 1.13 1.21	50% 0.54 .48 .54 .53 .58	72.9 71.8 72.5 75.0 74.7	Hunter's b value 9.6 10.1 10.2 9.4 9.5	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202	1.13 .95 1.11 1.13 1.21 1.05 .98	50% 0.54 .48 .54 .53 .58 .53 .50	72.9 71.8 72.5 75.0 74.7 72.7	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571	1.13 .95 1.11 1.13 1.21 1.05 .98 1.12	50% 0.54 .48 .54 .53 .58 .53 .50 .58	72.9 71.8 72.5 75.0 74.7 72.7 74.2 70.4	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7 9.6	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1 11.5
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303	1.13 .95 1.11 1.13 1.21 1.05 .98 1.12 1.06	50% 0.54 .48 .54 .53 .58 .53 .50 .58 .52	72.9 71.8 72.5 75.0 74.7 72.7 74.2	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7 9.6 9.8	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1 11.5 10.9
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL	1.13 .95 1.11 1.13 1.21 1.05 .98 1.12 1.06 1.11	50% 0.54 .48 .54 .53 .58 .53 .50 .58 .55 .50	72.9 71.8 72.5 75.0 74.7 72.7 74.2 70.4 73.3	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7 9.6 9.7	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1 11.5 10.9 11.6
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S	1.13 .95 1.11 1.13 1.21 1.05 .98 1.12 1.06 1.11	50% 0.54 .48 .54 .53 .58 .53 .50 .58 .52 .55	72.9 71.8 72.5 75.0 74.7 72.7 74.2 70.4 73.3 73.9 73.3	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7 9.6 9.8 9.7 9.6	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1 11.5 10.9 11.6 12.8
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S Paymaster 111A	1.13 .95 1.11 1.13 1.21 1.05 .98 1.12 1.06 1.11 1.16 1.11	50% 0.54 .48 .54 .53 .58 .53 .50 .58 .55 .55 .55	72.9 71.8 72.5 75.0 74.7 72.7 74.2 70.4 73.3 73.9 73.3 71.8	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7 9.6 9.8 9.7 9.6 9.8	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1 11.5 10.9 11.6 12.8 15.2
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S Paymaster 111A Coker 5110	1.13 .95 1.11 1.13 1.21 1.05 .98 1.12 1.06 1.11 1.16 1.11	50% 0.54 .48 .54 .53 .58 .53 .50 .58 .55 .55 .55	72.9 71.8 72.5 75.0 74.7 72.7 74.2 70.4 73.3 73.9 73.3 71.8 72.5	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7 9.6 9.8 9.7 9.6 9.8 9.7	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1 11.5 10.9 11.6 12.8 15.2 12.9
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S Paymaster 111A Coker 5110 Coker 310	1.13 .95 1.11 1.13 1.21 1.05 .98 1.12 1.06 1.11 1.16 1.11 1.20 1.22	50% 0.54 .48 .54 .53 .58 .53 .50 .58 .52 .55 .55 .55 .57	72.9 71.8 72.5 75.0 74.7 72.7 74.2 70.4 73.3 73.9 73.3 71.8 72.5 71.1	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7 9.6 9.8 9.7 9.6 9.8 9.7 9.8	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1 11.5 10.9 11.6 12.8 15.2 12.9 12.8 13.9
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S Paymaster 111A Coker 5110 Coker 310 Acala 1517-70	1.13 .95 1.11 1.13 1.21 1.05 .98 1.12 1.06 1.11 1.16 1.11 1.20 1.22 1.19	50% 0.54 .48 .54 .53 .58 .53 .50 .58 .55 .55 .55 .55 .55	72.9 71.8 72.5 75.0 74.7 72.7 74.2 70.4 73.3 73.9 73.3 71.8 72.5 71.1 72.2	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7 9.6 9.8 9.7 9.6 9.8 9.7 9.6 9.8 9.7 9.6	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1 11.5 10.9 11.6 12.8 15.2 12.9 12.8 13.9 16.4
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S Paymaster 111A Coker 5110 Coker 310 Acala 1517-70 Dunn 119	1.13 .95 1.11 1.13 1.21 1.05 .98 1.12 1.06 1.11 1.16 1.11 1.20 1.22 1.19 1.17	50% 0.54 .48 .54 .53 .58 .53 .50 .58 .52 .55 .55 .55 .57 .57 .58 .56	72.9 71.8 72.5 75.0 74.7 72.7 74.2 70.4 73.3 73.9 73.3 71.8 72.5 71.1 72.2 71.4	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7 9.6 9.8 9.7 9.6 9.8 9.7 9.6 8.6	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1 11.5 10.9 11.6 12.8 15.2 12.9 12.8 13.9 16.4 14.2
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL	1.13 .95 1.11 1.13 1.21 1.05 .98 1.12 1.06 1.11 1.16 1.11 1.20 1.22 1.19	50% 0.54 .48 .54 .53 .58 .53 .50 .58 .55 .55 .55 .55 .55	72.9 71.8 72.5 75.0 74.7 72.7 74.2 70.4 73.3 73.9 73.3 71.8 72.5 71.1 72.2	Hunter's b value 9.6 10.1 10.2 9.4 9.5 9.7 9.6 9.8 9.7 9.6 9.8 9.7 9.6 9.8 9.7 9.6	tenacity (cN/tex) 12.5 10.2 12.1 12.2 12.6 10.1 11.5 10.9 11.6 12.8 15.2 12.9 12.8 13.9 16.4

Table 71.--Plains test: Seed data for Chickasha, Okla. (irrigated)

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Paymaster 18	21.7	3.45	1.18	10.5	6.0
Westburn 70	22.4	3.41	1.29	10.4	7.0
Tamcot Sp 21	21.4	3.37	1.16	9.9	8.0
Tamcot 788	22.1	3.60	1.27	6.3	7.5
Deltapine 16	22.2	3.18	1.18	10.4	6.5
Lankart 611	18.3	3.31	•82	12.6	6.0
Paymaster 202	23.2	3.10	1.11	8.8	6.0
Lankart LX 571	20.0	3.48	•71	9.0	6.0
Paymaster 303	20.2	3.36	1.05	10.5	6.0
Lockett BXL	22.0	3.44	1.09	10.3	6.0
Stripper Cala S	21.4	3.49	1.00	10.2	6.5
Paymaster 111A	21.3	3.16	.98	12.4	5.0
Coker 5110	22.0	3.45	1.16	11.0	5.0
Coker 310	20.9	3.42	1.11	11.0	6.0
	20.8	3.24	1.05	12.3	5.5
Acala 1517-70					
Dunn 119	19.4	3.54	•98	14.4	5.5
Paymaster 909	21.0	3.55	.89	8.8	7.5
Lockett 4789A	19.1	3.59	.87	10.2	6.0
Gregg 35W	19.0	3.41	.18	9.9	6.0
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
	(nim^3)	area (mm²)	(g/cm ³)		seed index
Pavmaster 18	111.7	121.7	1.026	2.3	11.6
	111.7	121.7	1.026	2.3	11.6
Westburn 70	119.8	127.5	1.011	7.3	12.1
Westburn 70 Tamcot Sp 21	119.8 121.7	127.5 128.9	1.011 1.026	7.3 3.3	12.1 12.5
Westburn 70 Camcot Sp 21 Camcot 788	119.8 121.7 123.2	127.5 128.9 129.9	1.011 1.026 1.032	7.3 3.3 3.6	12.1 12.5 12.7
Vestburn 70 Famcot Sp 21 Famcot 788 Deltapine 16	119.8 121.7 123.2 117.5	127.5 128.9 129.9 125.9	1.011 1.026 1.032 1.033	7.3 3.3 3.6 2.8	12.1 12.5 12.7 12.1
Vestburn 70 Famcot Sp 21 Famcot 788 Deltapine 16 Lankart 611	119.8 121.7 123.2 117.5 142.3	127.5 128.9 129.9 125.9 143.0	1.011 1.026 1.032 1.033 .919	7.3 3.3 3.6 2.8 15.3	12.1 12.5 12.7 12.1 13.1
Westburn 70 Famcot Sp 21 Famcot 788 Deltapine 16 Lankart 611 Paymaster 202	119.8 121.7 123.2 117.5 142.3 132.8	127.5 128.9 129.9 125.9 143.0 136.6	1.011 1.026 1.032 1.033 .919 .989	7.3 3.3 3.6 2.8 15.3 5.3	12.1 12.5 12.7 12.1 13.1
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571	119.8 121.7 123.2 117.5 142.3 132.8 153.1	127.5 128.9 129.9 125.9 143.0 136.6 150.2	1.011 1.026 1.032 1.033 .919 .989	7.3 3.3 3.6 2.8 15.3 5.3	12.1 12.5 12.7 12.1 13.1 13.1
Westburn 70 Famcot Sp 21 Famcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303	119.8 121.7 123.2 117.5 142.3 132.8 153.1 116.3	127.5 128.9 129.9 125.9 143.0 136.6 150.2 125.0	1.011 1.026 1.032 1.033 .919 .989 .967 1.033	7.3 3.3 3.6 2.8 15.3 5.3 5.8 3.0	12.1 12.5 12.7 12.1 13.1 13.1 14.8 12.0
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL	119.8 121.7 123.2 117.5 142.3 132.8 153.1 116.3 119.6	127.5 128.9 129.9 125.9 143.0 136.6 150.2 125.0	1.011 1.026 1.032 1.033 .919 .989 .967 1.033 1.049	7.3 3.3 3.6 2.8 15.3 5.3 5.8 3.0 1.3	12.1 12.5 12.7 12.1 13.1 13.1 14.8 12.0 12.5
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S	119.8 121.7 123.2 117.5 142.3 132.8 153.1 116.3 119.6 118.9	127.5 128.9 129.9 125.9 143.0 136.6 150.2 125.0 127.4 126.9	1.011 1.026 1.032 1.033 .919 .989 .967 1.033 1.049	7.3 3.3 3.6 2.8 15.3 5.3 5.8 3.0 1.3 5.0	12.1 12.5 12.7 12.1 13.1 13.1 14.8 12.0 12.5 12.4
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S Paymaster 111A	119.8 121.7 123.2 117.5 142.3 132.8 153.1 116.3 119.6 118.9 129.5	127.5 128.9 129.9 125.9 143.0 136.6 150.2 125.0 127.4 126.9 134.3	1.011 1.026 1.032 1.033 .919 .989 .967 1.033 1.049 1.042	7.3 3.3 3.6 2.8 15.3 5.3 5.8 3.0 1.3 5.0 3.0	12.1 12.5 12.7 12.1 13.1 13.1 14.8 12.0 12.5 12.4
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S Paymaster 111A Coker 5110	119.8 121.7 123.2 117.5 142.3 132.8 153.1 116.3 119.6 118.9 129.5 115.7	127.5 128.9 129.9 125.9 143.0 136.6 150.2 125.0 127.4 126.9 134.3 124.6	1.011 1.026 1.032 1.033 .919 .989 .967 1.033 1.049 1.042 1.025 1.038	7.3 3.3 3.6 2.8 15.3 5.3 5.8 3.0 1.3 5.0 3.0 3.0	12.1 12.5 12.7 12.1 13.1 13.1 14.8 12.0 12.5 12.4 13.3
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Cokett BXL Stripper Cala S Paymaster 111A Coker 5110 Coker 310	119.8 121.7 123.2 117.5 142.3 132.8 153.1 116.3 119.6 118.9 129.5 115.7 101.7	127.5 128.9 129.9 125.9 143.0 136.6 150.2 125.0 127.4 126.9 134.3 124.6 114.1	1.011 1.026 1.032 1.033 .919 .989 .967 1.033 1.049 1.042 1.025 1.038 1.047	7.3 3.3 3.6 2.8 15.3 5.3 5.8 3.0 1.3 5.0 3.0 2.3	12.1 12.5 12.7 12.1 13.1 13.1 14.8 12.0 12.5 12.4 13.3 12.0 10.7
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S Paymaster 111A Coker 5110 Coker 310 Acala 1517-70	119.8 121.7 123.2 117.5 142.3 132.8 153.1 116.3 119.6 118.9 129.5 115.7 101.7 113.0	127.5 128.9 129.9 125.9 143.0 136.6 150.2 125.0 127.4 126.9 134.3 124.6 114.1 122.6	1.011 1.026 1.032 1.033 .919 .989 .967 1.033 1.049 1.042 1.025 1.038 1.047 1.016	7.3 3.3 3.6 2.8 15.3 5.3 5.8 3.0 1.3 5.0 3.0 2.3 12.5	12.1 12.5 12.7 12.1 13.1 13.1 14.8 12.0 12.5 12.4 13.3 12.0 10.7 13.0
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Paymaster 303 Cokett BXL Stripper Cala S Paymaster 111A Coker 5110 Coker 310 Acala 1517-70 Dunn 119	119.8 121.7 123.2 117.5 142.3 132.8 153.1 116.3 119.6 118.9 129.5 115.7 101.7 113.0 136.5	127.5 128.9 129.9 125.9 143.0 136.6 150.2 125.0 127.4 126.9 134.3 124.6 114.1 122.6 139.1	1.011 1.026 1.032 1.033 .919 .989 .967 1.033 1.049 1.042 1.025 1.038 1.047 1.016	7.3 3.3 3.6 2.8 15.3 5.3 5.8 3.0 1.3 5.0 3.0 2.3 12.5 11.8	12.1 12.5 12.7 12.1 13.1 13.1 14.8 12.0 12.5 12.4 13.3 12.0 10.7 13.0 13.4
Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S Paymaster 111A Coker 5110 Coker 310 Acala 1517-70 Dunn 119 Paymaster 909	119.8 121.7 123.2 117.5 142.3 132.8 153.1 116.3 119.6 118.9 129.5 115.7 101.7 113.0 136.5 129.6	127.5 128.9 129.9 125.9 143.0 136.6 150.2 125.0 127.4 126.9 134.3 124.6 114.1 122.6 139.1 134.4	1.011 1.026 1.032 1.033 .919 .989 .967 1.033 1.049 1.042 1.025 1.038 1.047 1.016 .985 1.036	7.3 3.3 3.6 2.8 15.3 5.3 5.8 3.0 1.3 5.0 3.0 2.3 12.5 11.8 5.3	12.1 12.5 12.7 12.1 13.1 13.1 14.8 12.0 12.5 12.4 13.3 12.0 10.7 13.0 13.4 13.4
Paymaster 18 Westburn 70 Tamcot Sp 21 Tamcot 788 Deltapine 16 Lankart 611 Paymaster 202 Lankart LX 571 Paymaster 303 Lockett BXL Stripper Cala S Paymaster 111A Coker 5110 Coker 310 Acala 1517-70 Dunn 119 Paymaster 909 Lockett 4789A Cregg 35W	119.8 121.7 123.2 117.5 142.3 132.8 153.1 116.3 119.6 118.9 129.5 115.7 101.7 113.0 136.5	127.5 128.9 129.9 125.9 143.0 136.6 150.2 125.0 127.4 126.9 134.3 124.6 114.1 122.6 139.1	1.011 1.026 1.032 1.033 .919 .989 .967 1.033 1.049 1.042 1.025 1.038 1.047 1.016	7.3 3.3 3.6 2.8 15.3 5.3 5.8 3.0 1.3 5.0 3.0 2.3 12.5 11.8	12.1 12.5 12.7 12.1 13.1 13.1 14.8 12.0 12.5 12.4 13.3 12.0 10.7 13.0 13.4

Table 72.--Plains test: Yield, boll, and spinning data for Lubbock, Tex. (dryland)

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Lockett 4789A	408 a	4.27	38.9	8.8	5.50
Paymaster 18	405 ab	3.78	36.3	9.9	6.05
Deltapine 16	389 abc	4.36	39.7	9.8	5.45
Paymaster 909	381 abcd	5.18	40.8	10.8	5.80
Coker 310	381 abcd	4.03	40.6	8.6	5.25
Lankart LX 571	378 abcd	5.17	39.5	11.3	5.65
Lockett BXL	372 abcde	4.20	39.8	9.3	5.00
Tamcot Sp 21	371 abcde	4.41	40.6	8.5	4.80
Paymaster 303	366 abcde	4.45	39.3	9.5	5.05
Coker 5110	362 abcde	4.07	40.4	8.5	5.20
Stripper Cala S	358 abcde	4.09	37.9	9.0	4.75
Paymaster 202	350 bcdef	4.90	37.7	10.1	5.40
Lankart 611	344 cdef	3.87	41.9	9.3	4.75
Tamcot 788	344 cdef	3.88	39.8	8.5	4.60
Paymaster 111A	335 cdef	4.63	38.7	9.6	
Westburn 70	335 cdef	4.15	37.7		5.20
				10.1	4.90
Gregg 35W	327 def	3.64	38.9	9.0	4.60
Acala 1517-70	320 ef	4.75	37.8	10.9	5.15
			4.1 4	0 =	= (0
Dunn 119	301 f	4.11	41.4	9.7	5.60
		4.11	Color	9.7	5.60 Yarn
	301 f	4.11	Color		
	301 f Span length (4.11 inches)		imeter	Yarn
	301 f Span length (4.11 inches)	Color	rimeter Hunter's	Yarn tenacity
Dunn 119 Lockett 4789A	301 f Span length (2.5%	4.11 inches) 50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Dunn 119 Lockett 4789A Paymaster 18	301 f Span length (2.5% .89 .78	4.11 inches) 50%	75.2 74.1	Hunter's b value	Yarn tenacity (cN/tex)
Lockett 4789A Paymaster 18 Deltapine 16	301 f Span length (2.5% .89 .78 .98	4.11 inches) 50% 0.41 .37 .44	75.2 74.1 77.6	Hunter's b value 10.8 11.2 10.5	Yarn tenacity (cN/tex) 9.0 7.2 9.9
Lockett 4789A Paymaster 18 Deltapine 16 Paymaster 909	301 f Span length (2.5% .89 .78 .98 .85	4.11 inches) 50% 0.41 .37 .44 .41	75.2 74.1 77.6 73.8	Hunter's b value 10.8 11.2 10.5 11.2	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3
Lockett 4789A Paymaster 18 Deltapine 16 Paymaster 909 Coker 310	301 f Span length (2.5% .89 .78 .98 .85 .94	4.11 inches) 50% 0.41 .37 .44 .41 .42	75.2 74.1 77.6 73.8 73.9	Hunter's b value 10.8 11.2 10.5 11.2 10.9	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9
Lockett 4789A Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571	301 f Span length (2.5% .89 .78 .98 .85 .94 .88	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39	75.2 74.1 77.6 73.8 73.9 73.9	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5
Lockett 4789A Paymaster 18 Deltapine 16 Coker 310 Lankart LX 571 Lockett BXL	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38	75.2 74.1 77.6 73.8 73.9 73.0 75.2	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1
Lockett 4789A Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42	75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6
Lockett 4789A Paymaster 18 Deltapine 16 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93 .86	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42 .37	Color R _d 75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9 74.4	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5 11.8	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6 8.5
Lockett 4789A Paymaster 18 Deltapine 16 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93 .86 .90	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42 .37 .40	Color R _d 75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9 74.4 76.1	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5 11.1	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6 8.5 9.0
Lockett 4789A Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93 .86 .90 .89	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42 .37 .40 .40	Color R _d 75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9 74.4 76.1 75.4	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5 11.1	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6 8.5 9.0 8.6
Lockett 4789A Paymaster 18 Deltapine 16 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93 .86 .90 .89 .85	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42 .37 .40 .40 .41	Color R _d 75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9 74.4 76.1 75.4 75.0	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5 11.1 11.7	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6 8.5 9.0 8.6 9.1
Lockett 4789A Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202 Lankart 611	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93 .86 .90 .89 .85 .80	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42 .37 .40 .40 .41 .36	Color R _d 75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9 74.4 76.1 75.4 75.0 74.8	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5 11.1 11.5 11.8 11.1 11.9 11.7	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6 8.5 9.0 8.6 9.1 6.4
Lockett 4789A Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202 Lankart 611 Tamcot 788	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93 .86 .90 .89 .85 .80 .88	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42 .37 .40 .40 .41 .36 .38	Color R _d 75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9 74.4 76.1 75.4 75.0 74.8 76.3	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5 11.1 11.5 11.8 11.1 11.9 11.7 11.5 11.8	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6 8.5 9.1 8.6 9.1 6.4 9.5
Lockett 4789A Paymaster 18 Deltapine 16 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202 Lankart 611 Tamcot 788 Paymaster 111A	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93 .86 .90 .89 .85 .80	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42 .37 .40 .40 .41 .36 .38 .40	Color R _d 75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9 74.4 76.1 75.4 75.0 74.8 76.3 74.7	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5 11.8 11.1 11.9 11.7 11.5 11.8	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6 8.5 9.0 8.6 9.1 6.4 9.5 8.4
Lockett 4789A Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202 Lankart 611 Tamcot 788 Paymaster 111A Westburn 70	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93 .86 .90 .89 .85 .80 .88	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42 .37 .40 .40 .41 .36 .38 .40 .39	Color R _d 75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9 74.4 76.1 75.4 75.0 74.8 76.3 74.7 74.8	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5 11.8 11.1 11.9 11.7 11.5 11.8 11.4 12.4	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6 8.5 9.1 8.6 8.5 9.0 8.6 9.1 6.4 9.5 8.4 7.7
Lockett 4789A Paymaster 18 Deltapine 16 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202 Lankart 611 Tamcot 788 Paymaster 111A	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93 .86 .90 .89 .85 .80 .88 .89	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42 .37 .40 .40 .41 .36 .38 .40	Color R _d 75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9 74.4 76.1 75.4 75.0 74.8 76.3 74.7	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5 11.8 11.1 11.9 11.7 11.5 11.8 11.1 11.9	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6 8.5 9.0 8.6 9.1 6.4 9.5 8.4 7.7 10.1
Lockett 4789A Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202 Lankart 611 Tamcot 788 Paymaster 111A Westburn 70	301 f Span length (2.5% .89 .78 .98 .85 .94 .88 .87 .93 .86 .90 .89 .85 .80 .89 .85	4.11 inches) 50% 0.41 .37 .44 .41 .42 .39 .38 .42 .37 .40 .40 .41 .36 .38 .40 .39	Color R _d 75.2 74.1 77.6 73.8 73.9 73.0 75.2 76.9 74.4 76.1 75.4 75.0 74.8 76.3 74.7 74.8	Hunter's b value 10.8 11.2 10.5 11.2 10.9 11.5 11.1 11.5 11.8 11.1 11.9 11.7 11.5 11.8 11.4 12.4	Yarn tenacity (cN/tex) 9.0 7.2 9.9 9.3 8.9 8.5 9.1 8.6 8.5 9.1 8.6 8.5 9.0 8.6 9.1 6.4 9.5 8.4 7.7

Table 73.--Plains test: Seed data for Lubbock, Tex. (dryland)

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lockett 4789A	20.3	3.88	0.78	6.2	7.0
Paymaster 18	19.5	3.99	• 94	6.3	7.0
Deltapine 16	19.7	3.77	.86	7.9	6.5
Paymaster 909	18.4	3.83	.72	8.0	6.0
Coker 310	18.7	4.06	.74	7.5	6.5
Lankart LX 571	18.2	3.90	•47	6.1	7.5
Lockett BXL	18.4	3.90	•71	6.8	6.0
Tamcot Sp 21	19.8	4.14	.70	5.0	7.0
Paymaster 303	18.7	3.75	.67	8.1	6.0
Coker 5110	18.8	4.03	.82	6.8	6.5
Stripper Cala S	19.3	3.91	.68	6.2	6.5
Paymaster 202	19.0	3.93	•73	6.7	6.0
Lankart 611	15.2	3.69	•50	10.1	6.0
Tamcot 788	19.2	4.08	•59	5.8	7.0
Paymaster 111A	19.1	3.95	•73	6.8	6.0
Westburn 70	19.6	4.03	•73	5.5	7.0
Gregg 35W	18.0	4.17	•21	6.8	6.0
Acala 1517-70	20.2	3.78	.84	9.3	5.5
Dunn 119	17.0	3.92	•47	8.7	5.5
			• • •		
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	Floaters (percent)	delinted-
Lockett 4789A	volume	surface	density		delinted-
	volume (mm ³)	surface area (mm ²)	density (g/cm ³)	(percent)	delinted- seed index
Paymaster 18	volume (mm ³)	surface area (mm ²)	density (g/cm ³)	(percent) 5.0	delinted- seed index
Paymaster 18 Deltapine 16	volume (mm ³) 77.4 76.3	surface area (mm ²) 95.3 94.4	density (g/cm ³) 1.078 1.070	(percent) 5.0 2.5	delinted- seed index 8.4 8.2
Paymaster 18 Deltapine 16 Paymaster 909	volume (mm ³) 77.4 76.3 83.9 98.7	surface area (mm ²) 95.3 94.4 100.6	density (g/cm ³) 1.078 1.070 1.066	(percent) 5.0 2.5 1.5	delinted- seed index 8.4 8.2 9.0
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310	volume (mm ³) 77.4 76.3 83.9 98.7 71.8	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084	5.0 2.5 1.5 3.3 5.5	8.4 8.2 9.0 10.0 7.8
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998	5.0 2.5 1.5 3.3 5.5	8.4 8.2 9.0 10.0 7.8 10.7
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064	5.0 2.5 1.5 3.3 5.5 4.8 5.3	8.4 8.2 9.0 10.0 7.8 10.7 8.1
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4 82.4	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5 99.4	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064 1.053	5.0 2.5 1.5 3.3 5.5 4.8 5.3 3.3	8.4 8.2 9.0 10.0 7.8 10.7 8.1 8.7
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4 82.4 83.8	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5 99.4 100.4	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064 1.053 1.055	5.0 2.5 1.5 3.3 5.5 4.8 5.3 3.3 4.0	8.4 8.2 9.0 10.0 7.8 10.7 8.1 8.7 8.8
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4 82.4 83.8 72.6	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5 99.4 100.4 91.3	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064 1.053 1.055 1.100	5.0 2.5 1.5 3.3 5.5 4.8 5.3 3.3 4.0 2.8	8.4 8.2 9.0 10.0 7.8 10.7 8.1 8.7 8.8
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4 82.4 83.8 72.6 79.9	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5 99.4 100.4 91.3 97.3	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064 1.053 1.055 1.100 1.061	5.0 2.5 1.5 3.3 5.5 4.8 5.3 3.3 4.0 2.8 2.5	8.4 8.2 9.0 10.0 7.8 10.7 8.1 8.7 8.8 8.0 8.5
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4 82.4 83.8 72.6 79.9 92.4	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5 99.4 100.4 91.3 97.3 107.1	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064 1.053 1.055 1.100 1.061 1.038	5.0 2.5 1.5 3.3 5.5 4.8 5.3 3.3 4.0 2.8 2.5 3.0	8.4 8.2 9.0 10.0 7.8 10.7 8.1 8.7 8.8 8.0 8.5 9.6
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202 Lankart 611	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4 82.4 83.8 72.6 79.9 92.4 87.6	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5 99.4 100.4 91.3 97.3 107.1 103.4	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064 1.053 1.055 1.100 1.061 1.038 .932	5.0 2.5 1.5 3.3 5.5 4.8 5.3 3.3 4.0 2.8 2.5 3.0 14.3	8.4 8.2 9.0 10.0 7.8 10.7 8.1 8.7 8.8 8.0 8.5 9.6 8.2
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202 Lankart 611 Tamcot 788	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4 82.4 83.8 72.6 79.9 92.4 87.6 70.8	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5 99.4 100.4 91.3 97.3 107.1 103.4 89.8	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064 1.053 1.055 1.100 1.061 1.038 .932 1.110	5.0 2.5 1.5 3.3 5.5 4.8 5.3 3.3 4.0 2.8 2.5 3.0 14.3 4.5	8.4 8.2 9.0 10.0 7.8 10.7 8.1 8.7 8.8 8.0 8.5 9.6 8.2 7.9
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202 Lankart 611 Tamcot 788 Paymaster 111A	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4 82.4 83.8 72.6 79.9 92.4 87.6 70.8 80.5	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5 99.4 100.4 91.3 97.3 107.1 103.4 89.8 97.9	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064 1.053 1.055 1.100 1.061 1.038 .932 1.110 1.074	5.0 2.5 1.5 3.3 5.5 4.8 5.3 3.3 4.0 2.8 2.5 3.0 14.3 4.5 5.5	8.4 8.2 9.0 10.0 7.8 10.7 8.1 8.7 8.8 8.0 8.5 9.6 8.2 7.9
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110 Stripper Cala S Paymaster 202 Lankart 611 Tamcot 788 Paymaster 111A Westburn 70	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4 82.4 83.8 72.6 79.9 92.4 87.6 70.8 80.5 80.2	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5 99.4 100.4 91.3 97.3 107.1 103.4 89.8 97.9 97.6	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064 1.053 1.055 1.100 1.061 1.038 .932 1.110 1.074 1.085	5.0 2.5 1.5 3.3 5.5 4.8 5.3 3.3 4.0 2.8 2.5 3.0 14.3 4.5 5.5	8.4 8.2 9.0 10.0 7.8 10.7 8.1 8.7 8.8 8.0 8.5 9.6 8.2 7.9 8.6 8.7
Paymaster 18 Deltapine 16 Paymaster 909 Coker 310 Lankart LX 571 Lockett BXL Tamcot Sp 21 Paymaster 303 Coker 5110	volume (mm ³) 77.4 76.3 83.9 98.7 71.8 106.8 76.4 82.4 83.8 72.6 79.9 92.4 87.6 70.8 80.5	surface area (mm ²) 95.3 94.4 100.6 112.1 90.6 118.1 94.5 99.4 100.4 91.3 97.3 107.1 103.4 89.8 97.9	density (g/cm ³) 1.078 1.070 1.066 1.011 1.084 .998 1.064 1.053 1.055 1.100 1.061 1.038 .932 1.110 1.074	5.0 2.5 1.5 3.3 5.5 4.8 5.3 3.3 4.0 2.8 2.5 3.0 14.3 4.5 5.5	8.4 8.2 9.0 10.0 7.8 10.7 8.1 8.7 8.8 8.0 8.5 9.6 8.2 7.9

Table 74.--Plains test: Yield, boll, and spinning data for Chillicothe, Tex. (dryland)

.ety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
art LX 571	367 a	6.39	37.9	12.6	5.20
cett BXL	357 ab	5.25	37.7	11.2	4.80
art 611	356 ab	6.55	37.6	12.4	4.90
ot Sp 21	346 abc	5.04	38.9	10.6	4.95
tett 4789A	341 abcd	5.28	35.6	11.6	4.85
burn 70	331 abcd	5.74	35.9	11.3	5.00
naster 18	323 abcd	4.69	34.2	11.5	6.10
ot 788	321 abcd	5.27	35.7	12.2	4.20
apine 16	314 abcde	4.93	36.4	11.1	5.05
pper Cala S	307 abcde	5.56	35.0	11.7	4.65
naster 111A	305 abcde	5.98	34.6	12.5	4.85
naster 202	300 abcde	5.68	35.9	11.9	5.25
er 310	297 bcde	5.21	38.6	11.7	4.95
naster 303	293 bcde	5.53	36.1	11.5	4.85
naster 909	282 cde	5.45	37.8	12.2	5.30
er 5110	280 cde	5.27	36.9	11.3	4.65
a 1517-70	273 de	4.46	35.2	12.7	4.60
	273 de 250 e				
119gg 35W	250 e 149 f	5.84 4.56	37.0 36.5	13.2 11.8	5.05 4.60
	Span length (Color	imeter Hunter's	Yarn tenacity
		inches)		imeter	
art LX 571		inches)	Color	imeter Hunter's	tenacity
art LX 571	2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	imeter Hunter's b value	tenacity (cN/tex)
ett BXL	1.00	inches) 50%	$\frac{\text{Color}}{R_d}$	imeter Hunter's b value	tenacity (cN/tex)
ett BXL	1.00	0.49 .51	Color: Rd 69.4 65.1	Hunter's b value 9.9 9.1	tenacity (cN/tex) 11.6 12.1
ett BXL art 611 ot Sp 21	1.00 1.05 .98	0.49 .51	Color: R d 69.4 65.1 67.6	Hunter's b value 9.9 9.1 9.6	tenacity (cN/tex) 11.6 12.1 10.8
ett BXL ert 611 et Sp 21 ett 4789A	1.00 1.05 .98 1.06	0.49 .51 .48	Color: Rd 69.4 65.1 67.6 71.4	Hunter's b value 9.9 9.1 9.6 9.3	tenacity (cN/tex) 11.6 12.1 10.8 12.3
ett BXL art 611 ot Sp 21 ett 4789A burn 70	1.00 1.05 .98 1.06 1.04	0.49 .51 .48 .50	Color: R d 69.4 65.1 67.6 71.4 66.2	Hunter's b value 9.9 9.1 9.6 9.3 8.8	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3
ett BXL art 611 ot Sp 21 ett 4789A burn 70 aster 18	1.00 1.05 .98 1.06 1.04 1.05	0.49 .51 .48 .50 .51	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5	Hunter's b value 9.9 9.1 9.6 9.3 8.8 9.7	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9
ett BXL	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08	0.49 .51 .48 .50 .51 .50	Color: R d 69.4 65.1 67.6 71.4 66.2 69.5 67.7	######################################	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7
cett BXL	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08 1.09	0.49 .51 .48 .50 .51 .50 .46	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5 67.7 68.7 68.8	######################################	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7 15.6 12.2
cett BXL cart 611 cot Sp 21 cett 4789A cburn 70 naster 18 cot 788 capine 16 cpper Cala S	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08 1.09	0.49 .51 .48 .50 .51 .50 .46 .50	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5 67.7 68.7 68.8 66.6	Hunter's b value 9.9 9.1 9.6 9.3 8.8 9.7 9.3 9.4 9.2 9.4	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7 15.6 12.2 12.6
cett BXL cart 611 cot Sp 21 cett 4789A cburn 70 caster 18 cot 788 capine 16 capper Cala S caster 111A	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08 1.09 1.03	0.49 .51 .48 .50 .51 .50 .46 .50 .46 .50	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5 67.7 68.7 68.8 66.6 67.3	Hunter's b value 9.9 9.1 9.6 9.3 8.8 9.7 9.3 9.4 9.2 9.4 9.3	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7 15.6 12.2 12.6 12.4
cett BXL cart 611 cot Sp 21 cett 4789A cburn 70 caster 18 cot 788 capine 16 capine 16 capine 16 capine 111A caster 202	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08 1.09 1.03 1.05 1.05	0.49 .51 .48 .50 .51 .50 .46 .50 .52 .48	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5 67.7 68.7 68.8 66.6 67.3 68.0	### Hunter's b value 9.9 9.1 9.6 9.3 8.8 9.7 9.3 9.4 9.2 9.4 9.3 9.2	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7 15.6 12.2 12.6 12.4 12.9
cett BXL	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08 1.09 1.03 1.05 1.03	0.49 .51 .48 .50 .51 .50 .46 .50 .52 .48 .50	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5 67.7 68.7 68.8 66.6 67.3 68.0 67.0	Hunter's b value 9.9 9.1 9.6 9.3 8.8 9.7 9.3 9.4 9.2 9.4 9.2 9.4 9.3	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7 15.6 12.2 12.6 12.4 12.9 13.3
cett BXL cart 611 cot Sp 21 cett 4789A cburn 70 caster 18 cot 788 capine 16 capine 16 capine 16 capine 111A caster 202 caster 310 caster 303	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08 1.09 1.03 1.05 1.03 1.13	0.49 .51 .48 .50 .51 .50 .46 .50 .52 .48 .50	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5 67.7 68.7 68.8 66.6 67.3 68.0 67.0 67.1	######################################	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7 15.6 12.2 12.6 12.4 12.9 13.3 12.8
cett BXL cart 611 cot Sp 21 cett 4789A cburn 70 caster 18 cot 788 capine 16 capine 16 capine 16 capine 11A caster 111A caster 303 caster 909	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08 1.09 1.03 1.05 1.03 1.13 1.04	0.49 .51 .48 .50 .51 .50 .46 .50 .52 .48 .50 .52	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5 67.7 68.7 68.8 66.6 67.3 68.0 67.0 67.1 65.5	######################################	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7 15.6 12.2 12.6 12.4 12.9 13.3 12.8 11.8
cett BXL	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08 1.09 1.03 1.05 1.03 1.13 1.04 .96 1.13	0.49 .51 .48 .50 .51 .50 .46 .50 .52 .48 .50 .52 .48 .50 .52 .48 .50 .52	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5 67.7 68.7 68.8 66.6 67.3 68.0 67.0 67.1 65.5 65.5	######################################	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7 15.6 12.2 12.6 12.4 12.9 13.3 12.8 11.8
cett BXL	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08 1.09 1.03 1.05 1.03 1.13 1.14	0.49 .51 .48 .50 .51 .50 .46 .50 .52 .48 .50 .52 .48 .50 .52 .53 .49 .48 .53 .53	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5 67.7 68.7 68.8 66.6 67.3 68.0 67.0 67.1 65.5 65.5 65.9	### Hunter's b value 9.9 9.1 9.6 9.3 8.8 9.7 9.3 9.4 9.2 9.4 9.3 9.2 9.4 9.3 9.4 9.3 9.4 9.3 9.4 9.8 9.8 9.8	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7 15.6 12.2 12.6 12.4 12.9 13.3 12.8 11.8 11.8
cett BXL	1.00 1.05 .98 1.06 1.04 1.05 .92 1.08 1.09 1.03 1.05 1.03 1.13 1.04 .96 1.13	0.49 .51 .48 .50 .51 .50 .46 .50 .52 .48 .50 .52 .48 .50 .52 .48 .50 .52	Color: Rd 69.4 65.1 67.6 71.4 66.2 69.5 67.7 68.7 68.8 66.6 67.3 68.0 67.0 67.1 65.5 65.5	######################################	tenacity (cN/tex) 11.6 12.1 10.8 12.3 13.3 10.9 9.7 15.6 12.2 12.6 12.4 12.9 13.3 12.8 11.8

Table 75.--Plains test: Seed data for Chillicothe, Tex. (dryland)

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Lankart LX 571	16.8	3.63	0.51	9.7	6.5
Lockett BXL	18.3	3.78	.74	9.5	6.0
Lankart 611	15.8	3.43	•49	14.4	5.5
Tamcot Sp 21	18.9	3.99	.79	5.8	7.0
Lockett 4789A	18.7	3.74	•75	10.0	5.5
Westburn 70	18.4	3.93	.78	7.1	6.5
Paymaster 18	18.4	3.72	.91	9.3	6.0
Tamcot 788	18.5	3.77	.66	9.3	5.5
Deltapine 16	19.2	3.67	.81	11.8	5.0
Stripper Cala S	18.4	3.79	•63	8.5	6.0
Paymaster 111A	17.6	3.60	•63	12.4	5.0
Paymaster 202	18.1	3.77	.63	9.5	5.5
Coker 310	17.7	3.89	.88	11.0	6.0
Paymaster 303	18.5	3.71	.68	11.0	5.0
Paymaster 909	16.8	3.79	•65	10.1	5.0
Coker 5110	18.1	3.79	•90	10.6	5.5
Acala 1517-70	18.7	3.59	.82	11.4	4.5
Dunn 119	16.0	3.63	•63	12.1	5.0
	15.9	3.73	.18	12.1	5.0
Gregg 35W		3.73	•10	12.1	
	Seed	Seed	Seed	Floaters	Acid-
	volume	surface	density	(percent)	delinted-
	(mm ³)	area (mm ²)	(g/cm ³)		seed index
	107.0	132.6	0.941	9.5	10.8
Lankart LX 571	12/.0		しゅ フサエ		
Lankart LX 571	127.0 108.0			4.0	9.7
Lockett BXL	108.0	119.0	1.103	4.0 14.3	9.7 10.1
Lockett BXL Lankart 611	108.0 124.4	119.0 130.8	1.103 .906	14.3	10.1
Lockett BXL Lankart 611 Tamcot Sp 21	108.0 124.4 108.0	119.0 130.8 119.0	1.103 .906 1.002	14.3 4.0	10.1 9.6
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A	108.0 124.4 108.0 108.8	119.0 130.8 119.0 119.6	1.103 .906 1.002 1.022	14.3 4.0 3.0	10.1 9.6 10.0
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70	108.0 124.4 108.0 108.8 110.9	119.0 130.8 119.0 119.6 121.2	1.103 .906 1.002 1.022 1.003	14.3 4.0 3.0 2.8	10.1 9.6 10.0 10.0
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18	108.0 124.4 108.0 108.8 110.9 108.4	119.0 130.8 119.0 119.6 121.2 119.3	1.103 .906 1.002 1.022 1.003 .993	14.3 4.0 3.0 2.8 5.8	10.1 9.6 10.0 10.0 9.5
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788	108.0 124.4 108.0 108.8 110.9 108.4 106.9	119.0 130.8 119.0 119.6 121.2 119.3	1.103 .906 1.002 1.022 1.003 .993 1.004	14.3 4.0 3.0 2.8 5.8 4.8	10.1 9.6 10.0 10.0 9.5 9.6
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788 Deltapine 16	108.0 124.4 108.0 108.8 110.9 108.4 106.9 102.2	119.0 130.8 119.0 119.6 121.2 119.3 118.2 114.7	1.103 .906 1.002 1.022 1.003 .993 1.004 .998	14.3 4.0 3.0 2.8 5.8 4.8 3.8	10.1 9.6 10.0 10.0 9.5 9.6 9.1
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788 Deltapine 16 Stripper Cala S	108.0 124.4 108.0 108.8 110.9 108.4 106.9 102.2 115.3	119.0 130.8 119.0 119.6 121.2 119.3 118.2 114.7 124.3	1.103 .906 1.002 1.022 1.003 .993 1.004 .998	14.3 4.0 3.0 2.8 5.8 4.8 3.8 6.0	10.1 9.6 10.0 10.0 9.5 9.6 9.1 10.0
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788 Deltapine 16 Stripper Cala S Paymaster 111A	108.0 124.4 108.0 108.8 110.9 108.4 106.9 102.2 115.3 116.1	119.0 130.8 119.0 119.6 121.2 119.3 118.2 114.7 124.3 124.9	1.103 .906 1.002 1.022 1.003 .993 1.004 .998 .975	14.3 4.0 3.0 2.8 5.8 4.8 3.8 6.0 5.3	10.1 9.6 10.0 10.0 9.5 9.6 9.1 10.0 10.3
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788 Deltapine 16 Stripper Cala S Paymaster 111A Paymaster 202	108.0 124.4 108.0 108.8 110.9 108.4 106.9 102.2 115.3 116.1	119.0 130.8 119.0 119.6 121.2 119.3 118.2 114.7 124.3 124.9 125.4	1.103 .906 1.002 1.022 1.003 .993 1.004 .998 .975 .996	14.3 4.0 3.0 2.8 5.8 4.8 3.8 6.0 5.3 4.8	10.1 9.6 10.0 10.0 9.5 9.6 9.1 10.0 10.3 10.1
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788 Deltapine 16 Stripper Cala S Paymaster 111A Paymaster 202 Coker 310	108.0 124.4 108.0 108.8 110.9 108.4 106.9 102.2 115.3 116.1 116.9 105.6	119.0 130.8 119.0 119.6 121.2 119.3 118.2 114.7 124.3 124.9 125.4 117.2	1.103 .906 1.002 1.022 1.003 .993 1.004 .998 .975 .996 .981 1.055	14.3 4.0 3.0 2.8 5.8 4.8 3.8 6.0 5.3 4.8 4.0	10.1 9.6 10.0 10.0 9.5 9.6 9.1 10.0 10.3 10.1 9.6
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788 Deltapine 16 Stripper Cala S Paymaster 111A Paymaster 202 Coker 310 Paymaster 303	108.0 124.4 108.0 108.8 110.9 108.4 106.9 102.2 115.3 116.1 116.9 105.6 113.3	119.0 130.8 119.0 119.6 121.2 119.3 118.2 114.7 124.3 124.9 125.4 117.2 122.9	1.103 .906 1.002 1.022 1.003 .993 1.004 .998 .975 .996 .981 1.055 .980	14.3 4.0 3.0 2.8 5.8 4.8 3.8 6.0 5.3 4.8 4.0 6.0	10.1 9.6 10.0 10.0 9.5 9.6 9.1 10.0 10.3 10.1 9.6 10.0
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788 Deltapine 16 Stripper Cala S Paymaster 111A Paymaster 202 Coker 310 Paymaster 303 Paymaster 909	108.0 124.4 108.0 108.8 110.9 108.4 106.9 102.2 115.3 116.1 116.9 105.6 113.3 121.7	119.0 130.8 119.0 119.6 121.2 119.3 118.2 114.7 124.3 124.9 125.4 117.2 122.9 128.9	1.103 .906 1.002 1.022 1.003 .993 1.004 .998 .975 .996 .981 1.055 .980	14.3 4.0 3.0 2.8 5.8 4.8 3.8 6.0 5.3 4.8 4.0 6.0 8.3	10.1 9.6 10.0 10.0 9.5 9.6 9.1 10.0 10.3 10.1 9.6 10.0 10.6
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788 Deltapine 16 Stripper Cala S Paymaster 111A Paymaster 202 Coker 310 Paymaster 303 Paymaster 909 Coker 5110	108.0 124.4 108.0 108.8 110.9 108.4 106.9 102.2 115.3 116.1 116.9 105.6 113.3 121.7 106.7	119.0 130.8 119.0 119.6 121.2 119.3 118.2 114.7 124.3 124.9 125.4 117.2 122.9 128.9 118.0	1.103 .906 1.002 1.022 1.003 .993 1.004 .998 .975 .996 .981 1.055 .980 .946	14.3 4.0 3.0 2.8 5.8 4.8 3.8 6.0 5.3 4.8 4.0 6.0 8.3 3.5	10.1 9.6 10.0 10.0 9.5 9.6 9.1 10.0 10.3 10.1 9.6 10.0 10.6 9.4
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788 Deltapine 16 Stripper Cala S Paymaster 111A Paymaster 202 Coker 310 Paymaster 303 Paymaster 909 Coker 5110 Acala 1517-70	108.0 124.4 108.0 108.8 110.9 108.4 106.9 102.2 115.3 116.1 116.9 105.6 113.3 121.7 106.7 120.8	119.0 130.8 119.0 119.6 121.2 119.3 118.2 114.7 124.3 124.9 125.4 117.2 122.9 128.9 118.0 128.2	1.103 .906 1.002 1.022 1.003 .993 1.004 .998 .975 .996 .981 1.055 .980 .946 .994	14.3 4.0 3.0 2.8 5.8 4.8 3.8 6.0 5.3 4.8 4.0 6.0 8.3 3.5 5.8	10.1 9.6 10.0 10.0 9.5 9.6 9.1 10.0 10.3 10.1 9.6 10.0 10.6 9.4 11.0
Lockett BXL Lankart 611 Tamcot Sp 21 Lockett 4789A Westburn 70 Paymaster 18 Tamcot 788 Deltapine 16 Stripper Cala S Paymaster 111A Paymaster 202 Coker 310 Paymaster 303 Paymaster 909 Coker 5110	108.0 124.4 108.0 108.8 110.9 108.4 106.9 102.2 115.3 116.1 116.9 105.6 113.3 121.7 106.7	119.0 130.8 119.0 119.6 121.2 119.3 118.2 114.7 124.3 124.9 125.4 117.2 122.9 128.9 118.0	1.103 .906 1.002 1.022 1.003 .993 1.004 .998 .975 .996 .981 1.055 .980 .946	14.3 4.0 3.0 2.8 5.8 4.8 3.8 6.0 5.3 4.8 4.0 6.0 8.3 3.5	10.1 9.6 10.0 10.0 9.5 9.6 9.1 10.0 10.3 10.1 9.6 10.0 10.6 9.4

Table 76.--Plains test: Yield, boll, and spinning data for Chickasha, Okla. (dryland)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Paymaster 18	123 a	4.24	37.2	9.0	5.60
Tamcot Sp 21	112 ab	4.02	36.8	8.0	5.25
Lockett BXL	107 abc	4.54	36.3	9.5	5.90
Paymaster 303	106 abcd	2.42	38.1	9.0	5.65
Westburn 70	106 abcd	3.64	34.1	8.5	6.00
ramcot 788	99 bcde	5.04	37.3	9.0	5.55
Lankart LX 571	96 bcde	4.52	39.6	9.5	5.50
Paymaster 909	95 bcde	4.66	32.8	8.5	5.50
ounn 119	95 bcde	4.92	39.0	8.5	5.75
ankart 611	94 bcde	5.28	40.4	10.0	5.30
Paymaster 111A	94 bcde	4.64	37.8	10.0	5.35
eltapine 16	94 bcde	3.48	36.4	8.0	6.00
Coker 5110	87 cdef	4.52	37.3	10.0	6.00
aymaster 202	86 cdef	4.92	35.5	10.0	6.00
cala 1517-70	84 cdef	4.00	40.0	10.0	5.35
Coker 310	83 def	4.18	37.5	9.5	6.00
Stripper Cala S	79 ef	4.60	38.3	8.5	5.45
regg 35W	70 f	4.44	38.3	9.0	5.20
ockett 4789A	67 f	4.80	38.2	9.5	6.10
	Span length (imeter	Yarn
		$\Gamma \cap Q$	\mathcal{D}	I I am de man I m	4
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Daymant on 10				b value	(cN/tex)
	.89	0.43	68.7	<i>b</i> value	(cN/tex) 9.7
amcot Sp 21	.89	0.43	68.7 68.3	b value 10.8 10.5	9.7 8.8
Camcot Sp 21	. 89 . 88 . 88	0.43 .40 .41	68.7 68.3 67.6	10.8 10.5 10.3	9.7 8.8 9.6
Camcot Sp 21 Cockett BXL Caymaster 303	.89 .88 .88	0.43 .40 .41 .45	68.7 68.3 67.6 70.8	10.8 10.5 10.3 10.9	9.7 8.8 9.6 8.5
Camcot Sp 21 Cockett BXL Caymaster 303 Vestburn 70	.89 .88 .88 .91	0.43 .40 .41 .45 .38	68.7 68.3 67.6 70.8 69.2	10.8 10.5 10.3 10.9 10.4	9.7 8.8 9.6 8.5 5.9
Camcot Sp 21 Cockett BXL Caymaster 303 Cestburn 70 Camcot 788	.89 .88 .88 .91 .80	0.43 .40 .41 .45 .38 .43	68.7 68.3 67.6 70.8 69.2 70.9	10.8 10.5 10.3 10.9 10.4 10.6	9.7 8.8 9.6 8.5 5.9 9.2
Camcot Sp 21 Cockett BXL Caymaster 303 Vestburn 70 Camcot 788 Lankart LX 571	.89 .88 .88 .91 .80 .90	0.43 .40 .41 .45 .38 .43	68.7 68.3 67.6 70.8 69.2 70.9 68.8	10.8 10.5 10.3 10.9 10.4 10.6 11.0	9.7 8.8 9.6 8.5 5.9 9.2 8.5
amcot Sp 21 cockett BXL aymaster 303 cestburn 70 amcot 788 ankart LX 571 aymaster 909	.89 .88 .88 .91 .80 .90 .83	0.43 .40 .41 .45 .38 .43 .38	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2	10.8 10.5 10.3 10.9 10.4 10.6 11.0	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4
Camcot Sp 21 Cockett BXL Caymaster 303 Castburn 70 Camcot 788 Cankart LX 571 Caymaster 909 Caymaster 909	.89 .88 .88 .91 .80 .90 .83 .89	0.43 .40 .41 .45 .38 .43 .38 .42	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2 68.7	10.8 10.5 10.3 10.9 10.4 10.6 11.0 10.7 9.7	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4 9.6
Camcot Sp 21 Cockett BXL Caymaster 303 Camcot 788 Cancot 788 Cankart LX 571 Caymaster 909 Count 119	.89 .88 .88 .91 .80 .90 .83	0.43 .40 .41 .45 .38 .43 .38 .42 .45	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2 68.7 70.8	b value 10.8 10.5 10.3 10.9 10.4 10.6 11.0 10.7 9.7 10.4	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4 9.6 9.0
Camcot Sp 21 Cockett BXL Caymaster 303 Camcot 788 Cankart LX 571 Caymaster 909 Cankart 611	.89 .88 .88 .91 .80 .90 .83 .89	0.43 .40 .41 .45 .38 .43 .38 .42	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2 68.7	10.8 10.5 10.3 10.9 10.4 10.6 11.0 10.7 9.7 10.4 10.5	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4 9.6 9.0 10.6
Camcot Sp 21 Cockett BXL Caymaster 303 Camcot 788 Camcot 788 Cankart LX 571 Caymaster 909 Caymaster 911 Caymaster 111A Caymaster 111A Caymaster 16	.89 .88 .88 .91 .80 .90 .83 .89	0.43 .40 .41 .45 .38 .43 .38 .42 .45 .41	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2 68.7 70.8 69.5 71.2	b value 10.8 10.5 10.3 10.9 10.4 10.6 11.0 10.7 9.7 10.4 10.5 10.6	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4 9.6 9.0 10.6 8.6
amcot Sp 21 cockett BXL aymaster 303 cestburn 70 amcot 788 ankart LX 571 aymaster 909 cunn 119 ankart 611 caymaster 111A celtapine 16	.89 .88 .88 .91 .80 .90 .83 .89 .94 .89	0.43 .40 .41 .45 .38 .43 .38 .42 .45	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2 68.7 70.8 69.5	10.8 10.5 10.3 10.9 10.4 10.6 11.0 10.7 9.7 10.4 10.5 10.6 10.5	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4 9.6 9.0 10.6 8.6 10.1
Camcot Sp 21 Caymaster 303 Camcot 788 Camcot 788 Cankart LX 571 Caymaster 909 Caymaster 911 Caymaster 111A Caymaster 111A Coker 5110	.89 .88 .88 .91 .80 .90 .83 .89 .94 .89	0.43 .40 .41 .45 .38 .43 .38 .42 .45 .41	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2 68.7 70.8 69.5 71.2	b value 10.8 10.5 10.3 10.9 10.4 10.6 11.0 10.7 9.7 10.4 10.5 10.6	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4 9.6 9.0 10.6 8.6
Camcot Sp 21 Caymaster 303 Caymaster 70 Camcot 788 Cankart LX 571 Caymaster 909 Caymaster 911 Caymaster 111A Caymaster 111A Caymaster 111A Caymaster 202	.89 .88 .88 .91 .80 .90 .83 .89 .94 .89	0.43 .40 .41 .45 .38 .43 .38 .42 .45 .41 .39 .40	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2 68.7 70.8 69.5 71.2 69.0	10.8 10.5 10.3 10.9 10.4 10.6 11.0 10.7 9.7 10.4 10.5 10.6 10.5	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4 9.6 9.0 10.6 8.6 10.1
Camcot Sp 21 Cockett BXL Caymaster 303 Camcot 788 Camcot 788 Camkart LX 571 Caymaster 909 Caymaster 911 Caymaster 111A Caymaster 111A Coker 5110 Caymaster 202 Caymaster 202 Cala 1517-70	.89 .88 .88 .91 .80 .90 .83 .89 .94 .89 .87 .85	0.43 .40 .41 .45 .38 .43 .38 .42 .45 .41 .39 .40	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2 68.7 70.8 69.5 71.2 69.0 69.8	b value 10.8 10.5 10.3 10.9 10.4 10.6 11.0 10.7 9.7 10.4 10.5 10.6 10.5 10.9	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4 9.6 9.0 10.6 8.6 10.1 9.3
Camcot Sp 21 Caymaster 303 Camcot 788 Camcot 788 Cankart LX 571 Caymaster 909 Cankart 611 Caymaster 111A Caymaster 111A Caymaster 202 Caymaster 202 Caymaster 202 Coker 310	.89 .88 .88 .91 .80 .90 .83 .89 .94 .89 .94 .89 .87 .85	0.43 .40 .41 .45 .38 .43 .38 .42 .45 .41 .39 .40 .43 .40	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2 68.7 70.8 69.5 71.2 69.0 69.8 70.6	10.8 10.5 10.3 10.9 10.4 10.6 11.0 10.7 9.7 10.4 10.5 10.6 10.5 10.6 10.5 10.6	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4 9.6 9.0 10.6 8.6 10.1 9.3 12.7
Paymaster 18 Camcot Sp 21 Cockett BXL Paymaster 303 Westburn 70 Camcot 788 Cankart LX 571 Paymaster 909 Counn 119 Cankart 611 Paymaster 111A Paymaster 111A Paymaster 202 Coker 5110 Coker 5110 Coker 310 Coker 310	.89 .88 .88 .91 .80 .90 .83 .89 .94 .89 .94 .89 .87 .85 .93 .81	0.43 .40 .41 .45 .38 .43 .38 .42 .45 .41 .39 .40 .43 .40	68.7 68.3 67.6 70.8 69.2 70.9 68.8 70.2 68.7 70.8 69.5 71.2 69.0 69.8 70.6 68.4	10.8 10.5 10.3 10.9 10.4 10.6 11.0 10.7 9.7 10.4 10.5 10.6 10.5 10.6 10.9	9.7 8.8 9.6 8.5 5.9 9.2 8.5 9.4 9.6 9.0 10.6 8.6 10.1 9.3 12.7 9.7

Table 77.--Plains test: Seed data for Chickasha, Okla. (dryland)

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Paymaster 18				7.9	7.5
Tamcot Sp 21				8.3	7.5
Lockett BXL				9.3	7.0
Paymaster 303				8.8	7.5
Westburn 70				10.1	7.5
Tamcot 788				9.5	8.0
Lankart LX 571				9.0	8.0
Paymaster 909				7.9	7.0
Dunn 119				10.5	7.0
Lankart 611				12.3	6.0
Paymaster lllA				9.9	6.5
Deltapine 16				8.8	7.0
Coker 5110				9.5	7.0
Paymaster 202				9.0	6.0
Acala 1517-70				11.4	7.0
Coker 310				10.9	7.5
Stripper Cala S				10.5	6.5
Gregg 35W				9.4	6.0
Lockett 4789A				10.1	6.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Paymaster 18	volume (mm ³)	surface area (mm ²)	density (g/cm ³)	(percent)	delinted- seed index
Paymaster 18 Tamcot Sp 21	volume (mm ³) 77.2	surface area (mm ²) 95.1	density (g/cm ³)	(percent) 3.0	delinted- seed index
Tamcot Sp 21	volume (mm ³) 77.2 69.0	surface area (mm ²) 95.1 88.3	density (g/cm ³) 1.118 1.140	(percent) 3.0 1.3	delinted- seed index 9.6 8.0
Tamcot Sp 21 Lockett BXL	volume (mm ³) 77.2 69.0 78.4	surface area (mm ²) 95.1 88.3 96.0	density (g/cm ³) 1.118 1.140 1.142	(percent) 3.0 1.3 1.3	delinted- seed index 9.6 8.0 8.9
Tamcot Sp 21 Lockett BXL Paymaster 303	volume (mm ³) 77.2 69.0	surface area (mm ²) 95.1 88.3 96.0 95.5	density (g/cm ³) 1.118 1.140 1.142 1.105	3.0 1.3 1.3 2.5	delinted- seed index 9.6 8.0 8.9 8.6
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70	77.2 69.0 78.4 77.7 70.0	surface area (mm ²) 95.1 88.3 96.0 95.5 89.1	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108	3.0 1.3 1.3 2.5 5.0	9.6 8.0 8.9 8.6 7.8
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9	surface area (mm ²) 95.1 88.3 96.0 95.5 89.1 103.5	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064	3.0 1.3 1.3 2.5 5.0 4.3	9.6 8.0 8.9 8.6 7.8 9.3
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3	surface area (mm ²) 95.1 88.3 96.0 95.5 89.1 103.5 100.9	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056	3.0 1.3 1.3 2.5 5.0 4.3 4.3	9.6 8.0 8.9 8.6 7.8 9.3 8.9
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571 Paymaster 909	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3 85.2	surface area (mm ²) 95.1 88.3 96.0 95.5 89.1 103.5 100.9 101.6	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056 1.068	3.0 1.3 1.3 2.5 5.0 4.3 4.3 2.5	9.6 8.0 8.9 8.6 7.8 9.3 8.9
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571 Paymaster 909 Dunn 119	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3	surface area (mm ²) 95.1 88.3 96.0 95.5 89.1 103.5 100.9	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056	3.0 1.3 1.3 2.5 5.0 4.3 4.3	delinted- seed index 9.6 8.0 8.9 8.6 7.8 9.3 8.9 9.1 9.3
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571 Paymaster 909 Dunn 119 Lankart 611	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3 85.2 88.2	95.1 88.3 96.0 95.5 89.1 103.5 100.9 101.6 103.7	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056 1.068 1.057	3.0 1.3 1.3 2.5 5.0 4.3 4.3 2.5 7.5	9.6 8.0 8.9 8.6 7.8 9.3 8.9 9.1
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571 Paymaster 909 Dunn 119 Lankart 611 Paymaster 111A	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3 85.2 88.2 89.2 89.2	surface area (mm ²) 95.1 88.3 96.0 95.5 89.1 103.5 100.9 101.6 103.7 104.8	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056 1.068 1.057 1.047 1.095	3.0 1.3 1.3 2.5 5.0 4.3 4.3 2.5 7.5 3.8 5.3	9.6 8.0 8.9 8.6 7.8 9.3 8.9 9.1
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571 Paymaster 909 Dunn 119	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3 85.2 88.2 89.2	95.1 88.3 96.0 95.5 89.1 103.5 100.9 101.6 103.7 104.8 99.8	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056 1.068 1.057 1.047	3.0 1.3 1.3 2.5 5.0 4.3 4.3 2.5 7.5	9.6 8.0 8.9 8.6 7.8 9.3 8.9 9.1
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571 Paymaster 909 Dunn 119 Lankart 611 Paymaster 111A Deltapine 16	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3 85.2 88.2 89.2 82.9 67.1	surface area (mm ²) 95.1 88.3 96.0 95.5 89.1 103.5 100.9 101.6 103.7 104.8 99.8 86.7	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056 1.068 1.057 1.047 1.095 1.134	(percent) 3.0 1.3 1.3 2.5 5.0 4.3 4.3 2.5 7.5 3.8 5.3 1.5	delinted- seed index 9.6 8.0 8.9 8.6 7.8 9.3 8.9 9.1 9.3 9.1 7.7
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571 Paymaster 909 Dunn 119 Lankart 611 Paymaster 111A Deltapine 16 Coker 5110	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3 85.2 88.2 89.2 89.2 82.9 67.1 77.0	surface area (mm ²) 95.1 88.3 96.0 95.5 89.1 103.5 100.9 101.6 103.7 104.8 99.8 86.7 94.8	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056 1.068 1.057 1.047 1.095 1.134 1.120 1.065	3.0 1.3 1.3 2.5 5.0 4.3 4.3 2.5 7.5 3.8 5.3 1.5 2.5	9.6 8.0 8.9 8.6 7.8 9.3 8.9 9.1 9.3 9.1
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571 Paymaster 909 Dunn 119 Lankart 611 Paymaster 111A Deltapine 16 Coker 5110 Paymaster 202 Acala 1517-70	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3 85.2 88.2 89.2 82.9 67.1 77.0 89.8	surface area (mm ²) 95.1 88.3 96.0 95.5 89.1 103.5 100.9 101.6 103.7 104.8 99.8 86.7 94.8 105.1	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056 1.068 1.057 1.047 1.095 1.134 1.120 1.065 1.119	(percent) 3.0 1.3 1.3 2.5 5.0 4.3 4.3 2.5 7.5 3.8 5.3 1.5 2.5 3.8 3.5	9.6 8.0 8.9 8.6 7.8 9.3 8.9 9.1 9.3 9.1 7.7 8.6 9.6
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571 Paymaster 909 Dunn 119 Lankart 611 Paymaster 111A Deltapine 16 Coker 5110 Paymaster 202 Acala 1517-70 Coker 310	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3 85.2 88.2 89.2 82.9 67.1 77.0 89.8 85.7	surface area (mm ²) 95.1 88.3 96.0 95.5 89.1 103.5 100.9 101.6 103.7 104.8 99.8 86.7 94.8 105.1 102.0	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056 1.068 1.057 1.047 1.095 1.134 1.120 1.065	3.0 1.3 1.3 2.5 5.0 4.3 4.3 2.5 7.5 3.8 5.3 1.5 2.5 3.8	delinted- seed index 9.6 8.0 8.9 8.6 7.8 9.3 8.9 9.1 9.3 9.1 7.7 8.6 9.6
Tamcot Sp 21 Lockett BXL Paymaster 303 Westburn 70 Tamcot 788 Lankart LX 571 Paymaster 909 Dunn 119 Lankart 611 Paymaster 111A Deltapine 16 Paymaster 5110 Paymaster 202	volume (mm ³) 77.2 69.0 78.4 77.7 70.0 87.9 84.3 85.2 88.2 89.2 82.9 67.1 77.0 89.8 85.7 76.1	95.1 88.3 96.0 95.5 89.1 103.5 100.9 101.6 103.7 104.8 99.8 86.7 94.8 105.1 102.0 94.3	density (g/cm ³) 1.118 1.140 1.142 1.105 1.108 1.064 1.056 1.068 1.057 1.047 1.095 1.134 1.120 1.065 1.119 1.111	3.0 1.3 1.3 2.5 5.0 4.3 4.3 2.5 7.5 3.8 5.3 1.5 2.5 3.8 3.5 5.0	delinted- seed index 9.6 8.0 8.9 8.6 7.8 9.3 8.9 9.1 9.3 9.1 7.7 8.6 9.6 9.6 9.6

WESTERN REGIONAL COTTON VARIETY TEST

Table 78.--Western test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61 Stoneville 256 Deltapine 16 Coker 310 Acala 1517-75 Ariz. 6608 Acala 1517-70 Paymaster 909	1232 a 1157 ab 1133 ab 1118 abc 1075 abc 995 bc 934 cd 770 d	5.66 cd 5.42 d 5.89 bc 6.08 b 5.88 bc 6.14 b 6.06 b 6.73 a	39.0 b 38.5 bc 38.4 c 38.7 bc 38.1 c 39.7 a 36.0 d 38.3 c	10.5 e 10.8 d 10.9 d 11.2 c 12.2 b 12.2 b 12.9 a 13.1 a	5.32 b 4.41 g 5.15 c 5.05 d 4.60 f 3.63 h 4.70 e 5.40 a
	Span length (in 2.5%	nches) 50%	$\frac{\text{Colorin}}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Deltapine 61 Stoneville 256 Deltapine 16 Coker 310 Acala 1517-75 Ariz. 6608 Acala 1517-70 Paymaster 909	1.13 bc 1.09 d 1.09 d 1.11 cd 1.15 a 1.11 cd 1.13 b .98 e	0.51 c .49 d .49 d .50 cd .56 a .54 ab .53 b .48 d	72.8 b 71.7 c 73.7 a 71.7 c 72.1 bc 70.5 d 71.6 c 70.2 d	7.8 de 7.7 e 8.0 cd 8.2 bc 7.3 f 8.4 b 8.3 bc 8.8 a	11.0 d 10.4 e 10.8 d 11.5 c 14.3 d 13.4 b 14.3 a 11.1 d

Table 79.--Western test: Seed data by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61 Stoneville 256 Deltapine 16 Coker 310 Acala 1517-75 Ariz. 6608 Acala 1517-70 Paymaster 909	18.8 de 19.0 de 19.7 bc 19.7 bc 20.9 a 19.2 cd 19.9 b 18.5 e	3.35 c 3.46 b 3.35 c 3.54 ab 3.48 b 3.61 a 3.37 c 3.53 ab	1.04 bc 1.18 a 1.08 b 1.11 b .93 de .87 e 1.00 cd .88 e	12.6 a 11.9 b 11.7 bc 11.4 bcd 8.7 e 11.1 d 12.8 a 11.3 cd	5.8 ab 5.1 c 5.7 ab 5.5 abc 5.2 bc 5.5 abc 4.3 d 5.9 a
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 61 Stoneville 256 Deltapine 16 Coker 310 Acala 1517-75 Ariz. 6608 Acala 1517-70 Paymaster 909	85.6 f 91.1 e 91.4 e 94.9 d 109.6 b 103.0 c 110.5 b 122.8 a	101.7 f 106.2 e 106.4 e 109.1 d 120.1 b 115.3 c 120.8 b 129.6 a	1.099 a 1.085 a 1.115 a 1.106 a 1.068 b 1.101 a 1.069 b 1.015 c	2.6 cd 3.0 cd 2.6 cd 1.5 d 3.8 bc 2.3 cd 4.5 b 6.0 a	9.4 f 10.0 e 10.2 e 10.5 d 11.7 b 11.3 c 11.8 b 12.5 a

Table 80.--Western test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Las Cruces, NM Artesia, NM Phoenix, AZ Yuma, AZ Marana, AZ El Paso, TX	1252 a 1108 b 1104 b 953 c 953 c 936 c	6.37 a 6.60 a 5.26 c 5.72 b 5.96 b 5.74 b	39.0 a 38.9 a 36.7 b 36.0 c 39.3 a 38.9 a	11.2 d 12.4 a 11.6 c 12.0 b 11.5 cd 11.5 c	3.71 f 4.73 e 5.55 a 5.21 c 5.30 b 4.84 d
	Span length (inches) 50%	$\frac{Color}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
Las Cruces, NM Artesia, NM Phoenix, AZ Yuma, AZ Marana, AZ El Paso, TX	1.09 b 1.16 a 1.07 c 1.08 bc 1.09 b 1.09 b	0.50 c .56 a .48 d .48 d .50 bc .52 b	72.1 c 75.4 a 74.5 b 72.4 c 69.9 d 67.5 e	8.4 b 9.3 a 8.6 b 6.8 e 7.3 d 8.1 c	12.1 b 12.8 a 11.4 cd 11.1 d 11.6 c 12.2 b

Table 81.—Western test: Seed data by test location

Location	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Las Cruces, NM Artesia, NM Phoenix, AZ Yuma, AZ Marana, AZ El Paso, TX	19.7 a 19.8 a 18.3 c 19.5 ab 19.8 a 19.2 b	3.49 b 3.41 b 3.44 b 3.66 a 3.14 c 3.61 a	0.91 d 1.08 b .99 c 1.25 a 1.11 b .85 d	10.0 d 11.5 b 13.0 a 10.8 c 13.1 a 11.2 bc	5.4 bc 5.1 c 6.3 a 5.5 bc 4.5 d 5.8 b
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Las Cruces, NM Artesia, NM Phoenix, AZ Yuma, AZ Marana, AZ El Paso, TX	102.9 b 106.3 a 95.4 c 103.2 b 95.1 c 100.2 b	115.1 b 117.6 a 108.9 c 115.2 b 109.2 c 113.2 b	1.081 bc 1.085 ab 1.108 a 1.064 c 1.081 bc 1.073 c	3.3 ab 2.5 b 4.6 a 3.6 ab 2.3 b 3.9 a	11.1 b 11.6 a 10.5 d 11.0 bc 10.3 d 10.7 c

Table 82.--Western test: Combined yield, boll, and spinning data for Yuma, Marana, and Phoenix, Ariz., by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	1272 a	5.34	38.8	10.3	5.63
Stoneville 256	1195 ab	5.14	37.9	10.6	5.51
Deltapine 16	1097 abc	5.62	37.9	10.7	5.40
Coker 310	1059 bcd	5.72	37.6	11.3	5.28
Ariz. 6608	903 cde	6.17	40.0	11.9	5.20
Acala 1517-75	892 de	5.66	38.4	12.2	4.80
Acala 1517-70	826 e	5.66	34.5	13.2	4.86
Paymaster 909	607 f	6.44	37.4	13.6	5.63
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Deltapine 61	1.11	0.49	73.3	7.1	10.3
Stoneville 256	1.08	.48	71.6	7.1	9.8
Deltapine 16	1.07	. 47	74.2	7.3	10.3
Coker 310	1.10	.48	71.8	7.7	11.1
Ariz. 6608	1.08	.52	68.3	7.1	12.6
Acala 1517-75	1.15	.55	71.1	6.4	13.5
Acala 1517-70	1.12	.52	72.6	7.9	14.2
Paymaster 909	.96	.47	70.3	8.5	11.4

Table 83.--Western test: Combined seed data for Yuma, Marana, and Phoenix, Ariz., by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	18.9	3.27	1.14	13.2	6.3
Stoneville 256	18.9	3.43	1.27	12.4	5.0
Deltapine 16	20.1	3.31	1.18	12.1	6.0
Coker 310	19.7	3.45	1.19	11.8	5.3
Ariz. 6608	19.3	3.37	•96	12.5	5.0
Acala 1517-75	20.7	3.27	1.02	10.7	4.0
Acala 1517-70	19.7	3.37	1.06	13.8	4.0
Paymaster 909	18.0	3.53	•93	11.6	6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 61	79.8	97.1	1.106	2.2	8.9
Stoneville 256	86.7	102.8	1.103	2.6	9.5
Deltapine 16	87.3	103.2	1.139	1.7	9.9
Coker 310	94.1	108.6	1.093	1.3	10.3
Ariz. 6608	93.8	108.3	1.097	2.3	10.3
Acala 1517-75	100.1	113.1	1.082	2.8	10.8
Acala 1517-70	111.5	121.5	1.064	5.8	11.9
Paymaster 909	126.8	132.4	•997	7.0	12.6

Table 84.--Western test: Combined yield, boll, and spinning data for El Paso, Tex.; Artesia, and Las Cruces, N. Mex., by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	1192 a	5.98	39.3	10.6	5.01
Coker 310	1177 ab	6.44	39.7	11.2	4.85
Deltapine 16	1168 ab	6.17	38.9	11.2	4.90
Acala 1517-75	1135 ab	5.96	38.1	12.2	4.53
Stoneville 256	1119 ab	5.70	39.2	11.0	3.31
Acala 1517-70	1041 ab	6.46	37.5	12.5	4.53
Ariz. 6608	1025 ab	6.13	39.6	12.3	3.11
Paymaster 909	933 b	7.03	.39.3	12.7	5.18
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	$R_{\mathcal{A}}$	Hunter's	tenacity
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Deltapine 61		0.53	R_{d} 72.3		
Deltapine 61 Coker 310	2.5% 1.14 1.12			b value	(cN/tex)
Coker 310	1.14	0.53	72.3	<i>b</i> value 8.5	(cN/tex) 11.7
Coker 310 Deltapine 16	1.14 1.12	0.53	72.3 71.5	8.5 8.7	(cN/tex) 11.7 11.9
Coker 310 Deltapine 16 Acala 1517-75	1.14 1.12 1.12	0.53 .52 .52	72.3 71.5 73.2	8.5 8.7 8.8	(cN/tex) 11.7 11.9 11.2
Coker 310 Deltapine 16 Acala 1517-75 Stoneville 256	1.14 1.12 1.12 1.16	0.53 .52 .52 .56	72.3 71.5 73.2 72.5	8.5 8.7 8.8 7.6	(cN/tex) 11.7 11.9 11.2 14.6
Coker 310 Deltapine 16 Acala 1517-75	1.14 1.12 1.12 1.16 1.10	0.53 .52 .52 .56 .51	72.3 71.5 73.2 72.5 71.8	8.5 8.7 8.8 7.6 8.3	(cN/tex) 11.7 11.9 11.2 14.6 10.9

Table 85.--Western test: Combined seed data for El Paso, Tex.; Artesia, and Las Cruces, N. Mex., by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	18.8	3.42	0.95	11.9	5.3
Coker 310	19.7	3.62	1.03	11.1	5.6
Deltapine 16	19.4	3.38	.98	11.4	5.5
Acala 1517-75	20.9	3.55	•91	8.0	5.6
Stoneville 256	19.0	3.48	1.09	11.4	5.3
Acala 1517-70	20.2	3.37	• 94	11.8	4.6
Ariz. 6608	19.1	3.69	.84	10.7	5.6
Paymaster 909	19.1	3.53	•82	11.0	5.8
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 61	91.3	106.4	1.092	2.8	10.0
Coker 310	95.6	109.7	1.120	1.6	10.7
Deltapine 16	95.4	109.6	1.092	3.4	10.4
Acala 1517-75	112.8	122.5	1.064	4.1	12.0
Stoneville 256	95.6	109.6	1.087	3.3	10.4
Acala 1517-70	109.6	120.2	1.074	3.1	11.8
Ariz. 6608	106.1	117.6	1.102	2.4	11.7
Paymaster 909	118.7	126.7	1.033	5.1	12.3

Table 86.--Western test: Yield, boll, and spinning data for Las Cruces, N. Mex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	1476 a	6.10	39.9	10.2	5.10
Deltapine 16	1427 ab	6.42	39.4	10.9	5.00
Acala 1517-75	1401 ab	6.35	38.0	11.6	5.00
Coker 310	1251 bc	6.26	39.3	10.6	4.70
Stoneville 256	1196 c	5.68	39.0	10.3	
Paymaster 909	1170 c	7.38	39.6	12.4	5.20
Acala 1517-70	1149 c	6.80	37.6	11.8	4.70
Ariz. 6608	948 d	5.98	39.7	11.9	
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Deltapine 61	1.13	0.51	72.2	8.0	11.4
Deltapine 16	1.13	.51	73.9	8.7	11.3
Acala 1517-75	1.13	.54	72.9	7.4	14.5
Coker 310	1.08	.49	72.0	8.6	11.4
Stoneville 256	1.07	.47	71.2	8.1	10.6
Paymaster 909	1.00	.49	69.9	8.9	10.6
Acala 1517-70	1.13	.51	72.4	8.9	14.2

Table 87.--Western test: Seed data for Las Cruces, N. Mex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61 Deltapine 16 Acala 1517-75 Coker 310 Stoneville 256 Paymaster 909 Acala 1517-70 Ariz. 6608	18.0 19.7 21.3 19.3 18.7 19.5 20.8 20.0	3.43 3.38 3.58 3.78 3.40 3.45 3.21 3.65	0.90 .90 .82 1.01 .98 .86 .92	11.5 9.9 8.0 9.7 10.7 9.6 10.5 10.2	5.0 5.0 6.0 5.5 5.0 6.0 4.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 61 Deltapine 16 Acala 1517-75 Coker 310 Stoneville 256 Paymaster 909 Acala 1517-70 Ariz. 6608	88.4 97.3 110.5 96.3 94.1 122.9 106.5	104.1 111.0 120.9 110.2 108.5 129.7 117.9 118.3	1.106 1.093 1.062 1.105 1.081 1.030 1.086	4.5 1.8 5.0 2.8 4.8 2.5 3.3 1.8	9.8 10.6 11.7 10.6 10.2 12.7 11.6 11.6

Table 88.--Western test: Yield, boll, and spinning data for Phoenix, Ariz.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	1381 a	5.35	38.2	10.9	5.85
Stoneville 256	1309 ab	4.77	37.6	10.4	5.50
Coker 310	1250 b	5.45	37.5	11.4	5.50
Deltapine 16	1156 c	5.02	37.3	10.2	5.50
Acala 1517-70	820 d	5.07	32.7	13.5	4.95
Paymaster 909	711 e	5.90	37.4	13.6	6.00
	Span length (2.5%	inches) 50%	$\frac{Color}{R_d}$	Hunter's b value	Yarn tenacity (cN/tex)
Deltapine 61	1.12	0.51	75.3	8.4	10.0
Stoneville 256	1.07	.46	74.9	8.4	9.9
Coker 310	1.07	.47	74.6	8.7	11.2
Deltapine 16	1.03	.45	76.2	8.3	10.4
Acala 1517-70	1.15	.54	74.4	8.8	14.7
Paymaster 909	.96	.48	71.9	9.1	12.2

Table 89.--Western test: Seed data for Phoenix, Ariz.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	18.6	3.34	1.01	14.8	7.0
Stoneville 256	18.0	3.42	1.09	12.5	6.0
Coker 310	18.8	3.51	1.12	11.0	6.0
Deltapine 16	19.4	3.38	1.03	12.7	7.0
Acala 1517-70	18.3	3.44	.88	15.4	5.0
Paymaster 909	16.9	3.56	.81	11.4	7.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 61	68.4	87.6	1.195	2.4	8.6
Stoneville 256	84.4	100.9	1.109	2.8	9.3
Coker 310	94.7	109.0	1.083	1.5	10.2
Deltapine 16	78.5	96.2	1.234	1.8	9.7
Acala 1517-70	112.6	122.4	1.061	9.2	11.9
Paymaster 909	133.9	137.3	.970	9.8	13.0

Table 90.--Western test: Yield, boll, and spinning data for Artesia, N. Mex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 310	1251 a	7.05	40.1	11.7	4.65
Stoneville 256	1221 ab	6.32	39.5	11.9	5.00
Deltapine 16	1217 ab	6.52	39.1	12.0	4.85
Deltapine 61	1082 bc	6.15	39.0	11.0	4.85
Ariz. 6608	1062 c	6.40	39.8	12.7	4.65
Acala 1517-75	1031 c	6.10	37.7	13.1	4.35
Acala 1517-70	1013 c	6.72	37.5	13.1	4.45
Paymaster 909	987 c	7.52	38.5	13.7	5.05
	Span length (inches)		. Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Coker 310	1.18	0.56	74.9	9.4	13.1
Stoneville 256	1.17	.55	76.5	8.9	11.7
Deltapine 16	1.17	.55	77.1	9.6	11.2
Deltapine 16	1.17	.56	75.4	9.3	12.2
Ariz. 6608	1.15	.58	74.2	9.9	13.4
Acala 1517-75	1.20	.61	77.0	8.5	15.3
Acala 1517-70	1.17	.58	73.7	9.3	15.0
Paymaster 909	1.05	.54	74.3	9.8	11.0

Table 91.--Western test: Seed data for Artesia, N. Mex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Coker 310	20.0	3.44	1.17	11.6	5.5
Stoneville 256	20.1	3.40	1.33	11.7	5.5
Deltapine 16	20.0	3.18	1.19	12.7	5.0
Deltapine 61	19.1	3.43	1.01	12.8	5.0
Ariz. 6608	18.9	3.68	.86	10.4	6.0
Acala .1517-75	20.8	3.45	1.07	8.1	5.0
Acala 1517-70	19.8	3.36	1.01	12.9	4.0
Paymaster 909	19.4	3.37	•96	12.1	5.5
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³)	surface area (mm ²)	density (g/cm ³)	(percent)	delinted- seed index
Coker 310	97.0	110.8	1.139	0.8	11.0
Stoneville 256	101.0	113.8	1.094	1.8	11.0
Deltapine 16	96.2	110.2	1.114	4.0	10.7
Deltapine 61	92.9	107.6	1.091	1.3	10.1
Ariz. 6608	104.0	116.0	1.140	1.0	11.9
Acala 1517-75	117.4	125.8	1.076	2.8	12.6
Acala 1517-70	116.8	125.3	1.055	2.8	12.3
Paymaster 909	125.2	131.4	1.052	5.8	13.2

Table 92.--Western test: Yield, boll, and spinning data for Yuma, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61 Stoneville 256	1218 a 1137 a	5.15 5.25	37.6 36.8	10.0	5.50 5.50
Deltapine 16	1095 a	5.90	36.9	11.1	5.20
Coker 310	935 b 861 b	5.70 5.97	35.9 33.1	11.7 14.0	4.95 4.65
Acala 1517-70 Paymaster 909	472 c	6.40	35.8	14.2	5.50
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_{d}	Hunter's b value	tenacity (cN/tex)
Deltapine 61	1.10	0.47	73.6	6.5	10.3
Stoneville 256	1.10	.48	71.5	6.5	9.6
Deltapine 16	1.08	.47	74.1	6.3	10.2
Coker 310	1.11	.47	71.8	6.8	11.1
Aca1a 1517-70	1.11	.50	72.5	7.0	14.4
Paymaster 909	. 98	.48	71.0	7.9	11.2

Table 93.--Western test: Seed data for Yuma, Ariz.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61 Stoneville 256 Deltapine 16 Coker 310 Acala 1517-70 Paymaster 909	18.7 19.3 20.4 19.8 20.4 18.6	3.53 3.73 3.54 3.71 3.67 3.80	1.25 1.43 1.32 1.23 1.18 1.07	10.9 10.8 10.6 11.0 12.0 9.4	7.0 5.0 6.0 5.0 4.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Deltapine 61 Stoneville 256 Deltapine 16 Coker 310 Acala 1517-70 Paymaster 909	87.7 93.0 95.2 96.6 116.3 130.5	103.6 107.8 109.4 110.5 102.5 135.0	1.054 1.085 1.081 1.097 1.066 1.004	3.0 3.0 2.3 1.8 4.3 7.3	9.2 10.1 10.3 10.6 12.4 13.1

Table 94.--Western test: Yield, boll, and spinning data for Marana, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Deltapine 61	1217 a	5.53	40.7	10.1	5.55
Stoneville 256	1139 ab	5.40	39.5	10.5	5.55
Deltapine 16	1041 bc	5.94	39.4	10.9	5.50
Coker. 310	991 cd	6.03	39.6	11.0	5.40
Ariz. 6608	903 de	6.17	40.0	11.9	5.20
Acala 1517-75	892 de	5.66	38.4	12.2	4.80
Acala 1517-70	798 e	5.94	37.7	12.2	5.00
Paymaster 909	639 f	7.02	39.2	13.2	5.40
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Deltapine 16	1.11	0.50	71.1	6.5	10.8
Stoneville 256	1.09	.50	68.6	6.6	10.1
Deltapine 16	1.09	.48	72.3	7.2	10.5
Coker 310	1.12	.50	69.0	7.8	11.1
Ariz. 6608	1.08	.52	68.3	7.1	12.6
Acala 1517-75	1.15	.55	71.1	6.4	13.5
Acala 1517-70	1.12	.52	70.9	8.0	13.5
Paymaster 909	.95	.46	68.0	8.5	10.8

Table 95.--Western test: Seed data for Marana, Ariz.

Variety	0i1 (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Deltapine 61	19.3	2.95	1.15	13.8	5.0
Stoneville 256	19.4	3.15	1.30	13.7	4.0
Deltapine 16	20.5	3.03	1.18	12.9	5.0
Coker 310	20.5	3.14	1.21	13.2	5.0
Ariz. 6608	19.3	3.37	.96	12.5	5.0
Acala 1517-75	20.7	3.27	1.02	10.7	4.0
Acala 1517-70	20.5	3.02	1.13	13.9	3.0
Paymaster 909	18.7	3.23	•92	13.9	5.0
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³)	surface area (mm ²)	density (g/cm ³)	(percent)	delinted- seed index
Deltapine 61	88.3	100.1	1.070	1.3	8.9
Stoneville 256	82.9	99.7	1.114	2.0	9.2
Deltapine 16	88.3	104.1	1.104	1.0	9.8
Coker 310	91.2	106.3	1.099	•8	10.0
Ariz. 6608	93.8	108.3	1.097	2.3	10.3
Acala 1517-75	100.1	113.1	1.082	2.8	10.8
Acala 1517-70	105.5	117.2	1.065	4.()	11.2
Paymaster 909	116.2	125.0	1.018	4.0	11.8

Table 96.--Western test: Yield, boll, and spinning data for El Paso, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Ariz. 6608	1066 a	6.03	39.3	12.5	4.70
Coker 310	1029 a	6.02	39.8	11.2	5.15
Deltapine 61	1019 a	5.71	38.0	10.8	5.10
Acala 1517-75	974 a	5.44	38.6	12.0	4.35
Acala 1517-70	960 a	5.87	37.3	12.8	4.45
Stoneville 256	940 a	5.12	39.1	10.7	4.95
Deltapine 16	857 ab	5.56	38.3	10.6	4.85
Deltapine 16 Paymaster 909	642 b	6.19	39.7	11.9	5.30
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Ariz. 6608	1.12	0.55	67.0	8.2	14.2
Coker 310	1.11	.52	67.8	8.2	11.4
Deltapine 61	1.14	.53	69.3	8.4	11.4
Acala 1517-75	1.15	.54	67.6	7.0	14.1
Acala 1517-70	1.14	.54	65.6	7.7	14.4
Stoneville 256	1.08	.50	67.7	8.0	10.6
Deltapine 16	1.08	.50	68.7	8.3	11.2
Paymaster 909	. 95	.47	66.3	8.9	10.9

Table 97.--Western test: Seed data for El Paso, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Ariz. 6608	18.5	3.73	0.80	11.6	5.0
Coker 310	19.9	3.64	•91	11.9	6.0
Deltapine 61	19.1	3.40	.94	11.5	6.0
Acala 1517-75	20.7	3.51	•83	7.9	6.0
Acala 1517-70	20.0	3.53	.88	12.0	5.5
Stoneville 256	18.3	3.65	•96	11.9	5.5
Deltapine 16	18.6	3.58	.86	11.4	6.5
Paymaster 909	18.3	3.77	.63	11.3	6.0
	Seed	Seed	Seed	Floaters	Acid-
	volume (mm ³)	surface area (mm ²)	density (g/cm ³)	(percent)	delinted- seed index
Ariz. 6608	107.2	118.4	1.079	4.3	11.6
Coker 310	93.6	108.2	1.115	1.3	10.5
Deltapine 61	92.7	107.5	1.081	2.8	10.0
Acala 1517-75	110.4	120.7	1.053	4.5	11.6
Acala 1517-70	105.6	117.3	1.080	3.3	11.4
Stoneville 256	- 91.5	106.6	1.086	3.5	10.0
Deltapine 16	92.8	107.6	1.069	3.5	9.9
Paymaster 909	108.1	119.1	1.018	7.0	11.0

SAN JOAQUIN VALLEY CONTINUOUS COTTON VARIETY TEST

Table 98.--San Joaquin test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-4 Acala SJ-2 Coker 310 Acala 1517-70 Deltapine 16 Paymaster 909	1141 a 1051 ab 1019 ab 1000 b 995 b 825 c	7.39 a 6.35 b 5.40 c 6.19 b 5.23 c 6.83 ab	38.3 a 37.0 ab 37.5 ab 36.3 b 36.5 b 36.9 ab	12.8 b 12.1 b 11.5 bc 11.9 b 9.9 c 14.6 a	4.30 b 4.13 b 3.81 c 3.83 c 3.91 c 4.53 a
	Span length (2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
Acala SJ-4	1.15 ab 1.15 ab 1.16 ab 1.17 a 1.15 b 1.03 c	0.52 a .51 a .49 b .51 a .49 b .50 ab	75.1 ab 74.9 ab 74.8 ab 74.4 ab 76.4 a 73.8 b	10.7 b 10.6 b 10.7 b 10.7 b 10.4 b 11.3 a	15.5 ab 14.8 b 13.2 c 16.2 a 12.5 c 12.7 c

Table 99.——San Joaquin test: Seed data by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-4 Acala SJ-2 Coker 310 Acala 1517-70 Deltapine 16 Paymaster 909	20.2 a	3.64 a	0.84 b	8.8 c	5.1 a
	17.1 d	3.47 cd	1.05 a	12.8 a	2.6 b
	18.0 c	3.53 bc	1.06 a	12.1 ab	5.5 a
	19.3 b	3.33 e	.99 a	12.8 a	4.5 a
	18.1 c	3.40 de	1.01 a	12.0 ab	5.3 a
	18.0 c	3.58 ab	.91 b	10.9 b	5.0 a
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Acala SJ-4	109.5 bc	120.1 bc	1.042 a	6.8 c	11.4 ab
	117.1 ab	126.5 ab	1.026 bc	9.4 bc	12.0 a
	88.0 d	103.8 d	1.023 bc	14.3 ab	9.0 c
	104.6 c	116.5 c	1.030 ab	13.7 ab	10.8 b
	89.4 d	104.9 d	1.016 c	18.4 a	9.1 c
	121.6 a	128.7 a	.981 d	13.6 ab	11.9 a

Table 100.--San Joaquin test: Yield, boll, and spinning data by test location

Location	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
West Side Field					
Station, CA	1290 a	6.68 a	37.0 ab	12.4 a	4.23 a
Kern Lake, CA	1000 b	6.07 b	36.4 b	12.2 a	4.20 a
Madera, CA	725 c	5.94 b	37.8 a	11.7 a	3.83 b
	Span length (inches)	Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
West Side Field					
Station, CA	1.16 a	0.52 a	73.2 b	10.3 c	13.9 a
Kern Lake, CA	1.12 b	.49 b	75.3 a	10.7 b	14.2 a
Madera, CA	1.12 b	.50 b	76.2 a	11.2 a	14.3 a

Table 101.--San Joaquin test: Seed data by test location

Location	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
West Side Field					
Station, CA	19.0 a	3.48 b	1.03 a	12.0 a	4.0 b
Kern Lake, CA	18.5 b	3.59 a	•92 c	11.0 b	4.9 a
Madera, CA	17.8 c	3.40 c	.98 b	11.7 ab	5.0 a
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
West Side Field					
Station, CA	108.4 a	119.0 a	1.033 a	10.9 b	11.2 a
Kern Lake, CA	105.7 ab	117.1 ab	1.026 a	9.5 b	10.8 a
Madera, CA	101.1 b	113.6 ь	1.000 b	17.7 a	10.1 b

Table 102.--San Joaquin test: Yield, boll, and spinning data for West Side Field Station, Calif.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-4 Acala 1517-70 Deltapine 16 Coker 310 Acala SJ-2 Paymaster 909	1407 a 1365 ab 1323 ab 1308 b 1291 b 1049 c	8.15 6.95 5.43 5.63 6.83 7.11	37.3 37.8 35.7 38.9 36.1	13.8 12.6 9.8 10.4 14.1	4.35 4.00 4.15 4.00 4.10
Taymaster 505	Span length (i		$\frac{36.6}{Color}$	imeter Hunter's b value	Yarn tenacity (cN/tex)
Acala SJ-4 Acala 1517-70 Deltapine 16 Coker 310 Acala SJ-2 Paymaster 909	1.18 1.22 1.18 1.19 1.16 1.07	0.54 .54 .51 .50 .51	72.8 72.2 74.2 72.3 74.5 73.2	10.0 10.2 9.6 10.4 9.9 11.6	14.7 16.7 12.0 12.8 15.0 12.3

Table 103.--San Joaquin test: Seed data for West Side Field Station, Calif.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-4 Acala 1517-70 Deltapine 16 Coker 310 Acala SJ-2 Paymaster 909	20.7 20.2 18.8 18.5 17.2 19.0	3.59 3.35 3.41 3.52 3.46 3.56	0.86 1.09 1.07 1.09 1.12	9.0 12.5 12.3 12.7 14.3	5.0 4.0 5.0 5.0 1.0 4.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Acala SJ-4 Acala 1517-70 Deltapine 16 Coker 310 Acala SJ-2 Paymaster 909	111.3 109.2 91.0 91.0 117.3 130.5	121.4 119.9 106.1 106.2 125.7 135.0	1.045 1.059 1.035 1.043 1.017	7.0 9.8 12.3 13.3 12.8 10.3	11.6 11.6 9.4 9.5 11.9

Table 104.--San Joaquin test: Yield, boll, and spinning data for Kern Lake, Calif.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-2	1156 a	6.50	36.8	10.3	4.20
Acala SJ-4	1123 a	7.23	38.7	12.6	4.50
Coker 310	1058 ab	4.91	35.7	12.7	4.00
Deltapine 16	966 bc	4.96	35.4	10.0	3.95
Acala 1517-70	911 c	5.69	35.0	12.4	3.95
Paymaster 909	788 d	7.16	37.1	15.7	4.60
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
Acala SJ-2	1.13	0.51	74.7	10.7	14.8
Acala SJ-4	1.15	.51	75.3	10.7	15.8
Coker 310	1.14	.48	76.0	10.8	13.2
Deltapine 16	1.12	.46	77.7	10.5	12.8
Acala 1517-70	1.14	.50	74.8	10.8	16.1
Paymaster 909	1.02	.48	73.5	11.0	12.7

Table 105.--San Joaquin test: Seed data for Kern Lake, Calif.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-2	17.0	3.55	1.01	12.0	3.5
Acala SJ-4	20.2	3.75	.81	8.2	5.5
Coker 310	18.7	3.70	1.06	12.3	5.5
Deltapine 16	17.9	3.45	•96	11.3	5.0
Acala 1517-70	19.3	3.45	•90	12.6	4.5
Paymaster 909	17.8	3.67	.79	9.4	5.5
	Seed volume	Seed surface	Seed density	Floaters (percent)	Acid- delinted-
	(mm ³)	area (mm ²)	(g/cm ³)	(Famous)	seed index
Acala SJ-2	119.5	127.3	1.031	5.3	12.3
Acala SJ-4	112.4	122.2	1.053	3.0	11.8
Coker 310	90.9	106.1	1.046	8.5	9.5
Deltapine 16	90.0	105.4	1.019	16.3	9.2
Acala 1517-70	104.5	116.4	1.034	11.3	10.8
Paymaster 909	116.7	125.3	.975	12.8	11.4

Table 106.--San Joaquin test: Yield, boll, and spinning data for Madera, Calif.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Acala SJ-4	893 a	6.77 a	38.9	12.2	4.05
Acala 1517-70	725 ab	5.92 ab	36.1	10.9	3.55
Acala SJ-2	707 ab	5.73 b	38.3	11.9	4.10
Deltapine 16	695 ab	5.32 b	38.5	10.1	3.65
Coker 310	693 ab	5.68 b	37.9	11.4	3.45
Paymaster 909	638 b	6.22 ab	37.1	14.0	4.20
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Acala SJ-4	1.13	0.50	77.2	11.3	15.9
Acala 1517-70	1.17	.50	76.2	11.0	15.8
Acala SJ-2	1.16	.52	75.5	11.3	14.7
Deltapine 16	1.14	.49	77.5	11.2	12.6
Coker 310	1.14	.49	76.3	11.0	13.6
Paymaster 909	1.02	.49	74.8	11.5	13.2

Table 107.--San Joaquin test: Seed data for Madera, Calif.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Acala SJ-4	19.6 18.5 17.0 17.7 16.8 17.2	3.60 3.18 3.40 3.33 3.38 3.51	0.86 .98 1.03 1.03 1.03	9.1 13.4 12.2 12.4 11.2 12.0	5.0 5.0 3.5 6.0 6.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Acala SJ-4 Acala 1517-70 Acala SJ-2 Deltapine 16 Coker 310 Paymaster 909	105.0 100.2 114.4 87.4 82.3 117.5	116.8 113.2 123.6 103.2 99.2 125.8	1.029 .997 1.029 .995 .982 .972	10.3 20.0 10.3 26.8 21.0 17.8	10.8 10.0 11.8 8.7 8.1 11.4

HIGH-QUALITY REGIONAL COTTON VARIETY TEST

Table 108.--High-quality test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	786 a	5.34 ef	39.0 c	10.3 jk	5.15 bc
Ga T 73-457863	741 ab	5.54 de	38.9 cd	11.0 efgh	5.06 cd
Coker 310	720 abc	5.75 bc	38.0 ef	11.2 defg	4.99 de
Ga T 72-56	719 abc	5.47 de	37.9 ef	11.2 def	5.21 ab
Coker 3114	711 abc	5.20 fg	39.7 b	10.2 k	4.92 ef
McNair 3034	709 abcd	5.82 ab	39.6 b	10.9 fgh	4.93 ef
Ga T 73-119	706 abcde	5.47 de	38.3 de	11.0 efgh	4.98 de
Coker 420-6913	691 abcde	5.46 de	37.2 gh	11.2 def	4.93 ef
Ga T 72-3	684 abcde	5.45 de	37.0 h	11.6 c	4.93 ef
Deltapine 16	678 abcde	5.74 bc	37.7 efg	10.9 ghi	5.21 ab
Stoneville 1114	673 abcde	5.43 de	39.4 bc	11.0 efgh	5.30 a
PD 3548	666 bcde	4.83 i	40.9 a	10.8 ghi	5.16 bc
Coker 420-6911	660 bcde	5.46 de	37.0 h	11.3 cde	5.06 cd
Vail 7	646 bcde	5.22 fg	38.3 de	10.7 hi	5.29 a
Stoneville 1073	644 bcde	5.07 gh	37.7 efg	10.6 ij	4.83 f
PD 3572	612 cde	4.99 hi	41.1 a	11.0 fgh	5.08 cd
PD 3608	606 cde	5.99 a	38.0 ef	12.0 b	5.07 cd
Mo. 63-277 BR1	593 de	5.61 cd	37.6 fgh	11.4 c	4.68 g
Mq. 63-277J	592 e	5.92 ab	37.0 h	12.4 a	4.64 gh
Acala 1517-70	440 f	5.58 cd	35.2 i 	12.1 b	4.56 h
	Span length (Colori		Yarn
	2.5%	50%	\overline{R}_d	Hunter's	tenacity
				b value	(cN/tex)
McNair 3035	1.09 g	0.51 ef	70.9 cdef	8.6 efg	11.9 ij
1 - M 77 457077	1.14 abc	.53 abcde	70.2 fg	8.9 cd	12.3 fgh
aa 1 /3-45/863					
Coker 310	1.15 ab	.52 bcde	70.9 cdef	8.6 efg	12.4 efg
oker 310 a T 72-56	1.15 ab			8.5 g	12.4 efg 11.6 jk
oker 310a T 72-56oker 3114	1.15 ab 1.08 g 1.14 abc	.52 bcde .51 f .52 cde	70.9 cdef 70.7 defg 71.3 bcd	8.5 g 8.7 def	12.4 efg 11.6 jk 12.5 efg
oker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg	.52 bcde .51 f .52 cde .50 f	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc	8.5 g 8.7 def 8.9 cd	12.4 efg 11.6 jk 12.5 efg 11.7 jk
oker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd	.52 bcde .51 f .52 cde .50 f .51 def	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg	8.5 g 8.7 def 8.9 cd 8.9 cd	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi
oker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd
Soker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.8 cde	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi
Coker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de 1.12 de	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd .53 abcde	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde 73.4 a	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.8 cde 8.6 fg	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi 11.6 k
Coker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de 1.12 de 1.11 ef	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd .53 abcde .51 def .52 bcde	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde 73.4 a 71.2 bcde	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.8 cde 8.6 fg 8.8 cde	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi 11.6 k 12.5 efg
Coker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de 1.12 de 1.11 ef 1.09 fg	.52 bcde .51 f .52 cde .50 f .51 def .53 abcde .53 abcde .51 def .52 bcde .52 cde	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde 73.4 a 71.2 bcde 69.8 g	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.8 cde 8.6 fg 8.8 cde 9.0 bc	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi 11.6 k 12.5 efg 12.4 efg
Coker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de 1.12 de 1.11 ef 1.09 fg 1.14 abc	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd .53 abcde .51 def .52 bcde .52 cde .53 abcd	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde 73.4 a 71.2 bcde 69.8 g 70.3 defg	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.8 cde 8.6 fg 8.8 cde 9.0 bc 8.9 cd	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi 11.6 k 12.5 efg 12.4 efg 12.7 de
Coker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de 1.12 de 1.11 ef 1.09 fg 1.14 abc 1.09 fg	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd .53 abcde .51 def .52 bcde .52 cde .53 abcd	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde 73.4 a 71.2 bcde 69.8 g 70.3 defg 72.0 b	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.8 cde 8.6 fg 8.8 cde 9.0 bc 8.9 cd 8.9 cd	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi 11.6 k 12.5 efg 12.4 efg 12.7 de 11.1 1
Coker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de 1.12 de 1.11 ef 1.09 fg 1.14 abc 1.09 fg 1.09 fg	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd .53 abcde .51 def .52 bcde .52 cde .53 abcd .55 bcde .55 bcde	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde 73.4 a 71.2 bcde 69.8 g 70.3 defg 72.0 b 69.9 g	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.8 cde 8.6 fg 8.8 cde 9.0 bc 8.9 cd 8.9 cd 8.9 cd	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi 11.6 k 12.5 efg 12.4 efg 12.7 de 11.1 1 12.6 def
Coker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de 1.12 de 1.11 ef 1.09 fg 1.14 abc 1.09 fg 1.09 fg 1.109 fg	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd .53 abcde .51 def .52 bcde .52 bcde .53 abcd .53 abcd	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde 73.4 a 71.2 bcde 69.8 g 70.3 defg 72.0 b 69.9 g 70.6 defg	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.8 cde 8.6 fg 8.8 cde 9.0 bc 8.9 cd 8.9 cd 8.9 cd 8.9 cd	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi 11.6 k 12.5 efg 12.4 efg 12.7 de 11.1 1 12.6 def 12.9 cd
Coker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de 1.12 de 1.11 ef 1.09 fg 1.14 abc 1.09 fg 1.09 fg 1.12 de 1.12 de	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd .53 abcde .51 def .52 bcde .52 bcde .52 cde .53 abcd .50 f .52 bcde .54 a	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde 73.4 a 71.2 bcde 69.8 g 70.3 defg 72.0 b 69.9 g 70.6 defg 69.7 g	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.6 fg 8.8 cde 9.0 bc 8.9 cd 8.9 cd 8.9 cd 8.9 cd 9.2 a	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi 11.6 k 12.5 efg 12.4 efg 12.7 de 11.1 1 12.6 def 12.9 cd 13.2 b
Coker 310	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de 1.12 de 1.11 ef 1.09 fg 1.14 abc 1.09 fg 1.19 de 1.11 de 1.11 de 1.11 abc 1.09 fg 1.14 abc 1.09 fg 1.14 abc 1.09 fg 1.15 a 1.14 abc	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd .53 abcde .51 def .52 bcde .52 bcde .53 abcd .55 bcde .55 bcde .54 a .54 ab	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde 73.4 a 71.2 bcde 69.8 g 70.3 defg 72.0 b 69.9 g 70.6 defg 69.7 g 70.2 efg	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.8 cde 8.6 fg 8.8 cde 9.0 bc 8.9 cd 8.9 cd 8.9 cd 9.2 a 9.2 ab	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi 11.6 k 12.5 efg 12.4 efg 12.7 de 11.1 1 12.6 def 12.9 cd 13.2 b 13.0 bc
Coker 420-6911 Vail 7Stoneville 1073 PD 3572	1.15 ab 1.08 g 1.14 abc 1.10 fg 1.13 cd 1.14 abc 1.12 de 1.12 de 1.11 ef 1.09 fg 1.14 abc 1.09 fg 1.19 de 1.11 de 1.11 de 1.13 bcd	.52 bcde .51 f .52 cde .50 f .51 def .53 abcd .53 abcde .51 def .52 bcde .52 bcde .52 cde .53 abcd .50 f .52 bcde .54 a	70.9 cdef 70.7 defg 71.3 bcd 71.9 bc 70.6 defg 72.0 b 71.2 bcde 73.4 a 71.2 bcde 69.8 g 70.3 defg 72.0 b 69.9 g 70.6 defg 69.7 g	8.5 g 8.7 def 8.9 cd 8.9 cd 8.9 cd 8.8 cde 8.6 fg 8.8 cde 9.0 bc 8.9 cd 8.9 cd 8.9 cd 8.9 cd 9.2 a 9.2 ab 9.4 a	12.4 efg 11.6 jk 12.5 efg 11.7 jk 12.0 hi 12.9 bcd 12.2 ghi 11.6 k 12.5 efg 12.4 efg 12.7 de 11.1 1 12.6 def 12.9 cd 13.2 b

Table 109.--High-quality test: Yield, boll, and spinning data by test location

Location	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Florence, SC	1056 a	6.34 a	38.2 e	12.0 a	5.15 b
St. Joseph, LA	1049 a	5.80 c	40.0 c	11.4 c	5.13 b
Jackson, TN	771 b	6.20 b	35.7 h	11.4 c	4.50 f
Stoneville, MS	761 b	5.38 d	36.9 f	11.8 b	5.02 c
Portageville, MO	756 b	5.79 c	36.3 g	12.0 a	4.69 e
College Station, TX	579 c	4.78 f	36.1 g	10.5 e	4.37 g
Belle Mina, AL	531 d	5.28 de	40.5 b	10.4 e	5.38 a
Tifton, GA	473 e	5.18 e	41.0 a	10.8 d	5.44 a
Rocky Mount, NC	374 f	5.39 d	39.1 d	10.0 f	5.40 a
Rohwer, AR	290 g	4.51 g	38.7 d		4.90 d
	Span length (inches)		imeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
Florence, SC	1.17 a	0.55 a	74.7 a	9.2 b	12.8 c
St. Joseph, LA	1.14 b	.54 a	72.3 b	9.7 a	12.2 e
Jackson, TN	1.15 b	.55 a	74.5 a	9.7 a	13.3 a
Stoneville, MS	1.14 b	.51 de	72.2 b	7.9 f	12.5 d
Portageville, MO	1.15 b	.52 cd	66.4 f	8.1 e	12.5 cd
College Station, TX	1.08 e	.49 f	69.4 de	8.4 d	13.0 b
Belle Mina, AL	1.09 d	.50 e	68.9 e	9.3 b	11.3 g
Tifton, GA	1.11 c	.52 bc	70.7 c	9.7 a	11.6 f
Rocky Mount, NC	1.02 f	.49 f	70.7 c	9.1 c	12.3 e
	1.14 b	.53 b	69.8 d	7.7 g	12.6 cd

Table 110.--High-quality test: Combined yield, boll, and spinning data for St. Joseph,
La.; Stoneville, Miss.; Jackson, Tenn.; Portageville, Mo.; Rohwer, Ark.;
and College Station, Tex., by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	837 a	5.24	37.8	10.6	4.92
Ga T 73-457863	790 ab	5.43	38.0	11.2	4.84
Ga T 72-56	786 ab	5.30	37.0	11.5	5.02
Coker 310	758 abc	5.78	36.8	11.6	4.72
Coker 3114	751 abc	5.16	38.6	10.4	4.65
Ga T 73-119	734 abc	5.34	37.0	11.3	4.68
McNair 3034	733 abc	5.76	38.4	11.1	4.76
PD 3548	725 abc	4.90	40.0	11.2	4.95
Deltapine 16	722 abc	5.72	36.7	11.1	4.95
Stoneville 1114	719 abc	5.30	38.7	11.1	5.14
Ga T 72-3	716 abc	5.41	35.5	12.0	4.70
Coker 420-6913	707 abc	5.44	35.7	11.5	4.68
Coker 420-6911	689 bc	5.45	35.6	11.6	4.84
Stoneville 1073	684 bc	5.03	36.9	10.8	4.58
Vail 7	658 bc	5.13	37.1	10.9	5.05
PD 3572	656 bc	5.00	40.7	11.1	4.83
PD 3608	639 c	5.89	37.3	12.5	4.77
Mo. 63-277J	634 c	5.92	36.4	12.7	4.47
Mo. 63-277BR1	627 c	5.54	36.9	11.6	4.40
Acala 1517-70	448 d	5.49	34.8	12.5	4.40
	Span length (inches)	Color	imeter	Yarn
McNair 3035	Span length (inches)	Color	imeter Hunter's	Yarn tenacity
	Span length (2.5%	inches) 50%	$\frac{\text{Color}}{R_d}$	imeter Hunter's b.value	Yarn tenacity (cN/tex)
McNair 3035 Ga T 73-457863	Span length (2.5% 1.10 1.16	inches) 50%	$\frac{\text{Color}}{R_d}$	Hunter's b.value	Yarn tenacity (cN/tex)
McNair 3035 Ga T 73-457863 Ga T 72-56	Span length (2.5% 1.10 1.16 1.10	0.51 .52 .51	Color R _d 69.8 70.0	Hunter's b.value 8.1 8.6	Yarn tenacity (cN/tex) 12.2 12.5
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310	Span length (2.5% 1.10 1.16 1.10 1.16	inches) 50% 0.51 .52	Color R _d 69.8 70.0 69.8	Hunter's b.value 8.1 8.6 8.1	Yarn tenacity (cN/tex) 12.2 12.5 11.8
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310	Span length (2.5% 1.10 1.16 1.10 1.16 1.16	0.51 .52 .51 .53	Color R _d 69.8 70.0 69.8 70.6	Hunter's b.value 8.1 8.6 8.1 8.2	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310 Coker 3114 Ga T 73-119	Span length (2.5% 1.10 1.16 1.10 1.16 1.15	0.51 .52 .51 .53	Color R _d 69.8 70.0 69.8 70.6 71.3	#unter's b.value 8.1 8.6 8.1 8.2 8.4	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310 Coker 3114 McNair 3034	Span length (2.5% 1.10 1.16 1.16 1.16 1.15 1.11	0.51 .52 .51 .53 .52 .51	Color R _d 69.8 70.0 69.8 70.6 71.3 70.1 71.5	Hunter's b.value 8.1 8.6 8.1 8.2 8.4 8.7	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310 Coker 3114 Ga T 73-119 McNair 3034 PD 3548	Span length (2.5% 1.10 1.16 1.16 1.16 1.15 1.11	0.51 .52 .51 .53 .52 .51 .51	Color R _d 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0	Hunter's b.value 8.1 8.6 8.1 8.2 8.4 8.7 8.5 8.8	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9
McNair 3035 Ga T 73-457863 Coker 310 Coker 3114 Ga T 73-119 McNair 3034 PD 3548 Deltapine 16	Span length (2.5% 1.10 1.16 1.16 1.16 1.15 1.11 1.11	0.51 .52 .51 .53 .52 .51	Color R _d 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0 73.5	#unter's b.value 8.1 8.6 8.1 8.2 8.4 8.7 8.5 8.8 8.3	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310 Coker 3114 McNair 3034 PD 3548 Deltapine 16 Stoneville 1114	Span length (2.5% 1.10 1.16 1.10 1.16 1.15 1.11 1.11 1.11	0.51 .52 .51 .53 .52 .51 .51 .53	Color R d 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0 73.5 71.3	#unter's b.value 8.1 8.6 8.1 8.2 8.4 8.7 8.5 8.8 8.3 8.5	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9
McNair 3035	Span length (2.5% 1.10 1.16 1.16 1.15 1.11 1.11 1.11 1.13 1.12 1.14	0.51 .52 .51 .53 .52 .51 .51 .53 .51	Color R _d 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0 73.5 71.3 71.3	#unter's b.value 8.1 8.6 8.1 8.2 8.4 8.7 8.5 8.8 8.3	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9 12.7 11.7 12.6 12.5
McNair 3035 Ga T 73-457863 Coker 310 Coker 3114 Ga T 73-119 McNair 3034 PD 3548 Deltapine 16 Stoneville 1114 Ga T 72-3 Coker 420-6913	Span length (2.5% 1.10 1.16 1.16 1.16 1.15 1.11 1.11 1.11 1.13 1.12 1.14 1.16	0.51 .52 .51 .53 .52 .51 .51 .53	Color R d 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0 73.5 71.3	#unter's b.value 8.1 8.6 8.1 8.2 8.4 8.7 8.5 8.8 8.3 8.5 8.4	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9 12.7 11.7 12.6
McNair 3035	Span length (2.5% 1.10 1.16 1.16 1.15 1.11 1.11 1.11 1.13 1.12 1.14	inches) 50% 0.51 .52 .51 .53 .52 .51 .51 .53 .51 .53 .51 .53	Color Rd 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0 73.5 71.3 71.3 71.9	### Hunter's b.value 8.1	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9 12.7 11.7 12.6 12.5 13.3
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310 Coker 3114 Ga T 73-119 McNair 3034 PD 3548 Deltapine 16 Stoneville 1114 Ga T 72-3 Coker 420-6913 Coker 420-6911 Stoneville 1073	Span length (2.5% 1.10 1.16 1.16 1.15 1.11 1.11 1.11 1.12 1.14 1.16 1.16 1.10	inches) 50% 0.51 .52 .51 .53 .52 .51 .51 .53 .51 .53 .51 .52 .53 .53	Color R d 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0 73.5 71.3 71.3 71.9 69.8	### Hunter's b.value 8.1 8.6 8.1 8.2 8.4 8.7 8.5 8.8 8.3 8.5 8.8 8.3 8.5 8.8	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9 12.7 11.7 12.6 12.5 13.3 13.0
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310 Coker 3114 Ga T 73-119 McNair 3034 PD 3548 Deltapine 16 Stoneville 1114 Ga T 72-3 Coker 420-6913 Coker 420-6911 Stoneville 1073 Vail 7	Span length (2.5% 1.10 1.16 1.16 1.15 1.11 1.11 1.13 1.12 1.14 1.16 1.16 1.10	0.51 .52 .51 .53 .52 .51 .53 .51 .53 .51 .52 .53 .53 .53	Color Rd 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0 73.5 71.3 71.3 71.9 69.8 69.8	### Hunter's b.value 8.1	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9 12.7 11.7 12.6 12.5 13.3 13.0 12.7 11.1
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310 Ga T 73-119 McNair 3034 PD 3548 Deltapine 16 Stoneville 1114 Ga T 72-3 Coker 420-6913 Coker 420-6911 Stoneville 1073 Vail 7 PD 3572	Span length (2.5% 1.10 1.16 1.16 1.15 1.11 1.11 1.13 1.12 1.14 1.16 1.16 1.10 1.11 1.11 1.11	inches) 50% 0.51 .52 .51 .53 .52 .51 .53 .51 .53 .51 .52 .53 .53 .53 .53 .53 .53 .53 .53	Color Rd 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0 73.5 71.3 71.3 71.9 69.8 69.8 69.6 71.4 70.7	### Hunter's b.value 8.1	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9 12.7 11.7 12.6 12.5 13.3 13.0 12.7 11.1
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310 Coker 3114 Ga T 73-119 McNair 3034 PD 3548 Deltapine 16 Stoneville 1114 Ga T 72-3 Coker 420-6913 Coker 420-6911 Stoneville 1073 Vail 7 PD 3572 PD 3608	Span length (2.5% 1.10 1.16 1.16 1.15 1.11 1.11 1.13 1.12 1.14 1.16 1.16 1.17	inches) 50% 0.51 .52 .51 .53 .52 .51 .53 .51 .52 .53 .52 .53 .53 .53 .53 .53 .55 .55	Color Rd 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0 73.5 71.3 71.3 71.9 69.8 69.6 71.4 70.7	### Hunter's b.value 8.1	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9 12.7 11.7 12.6 12.5 13.3 13.0 12.7 11.1 13.2 13.6
McNair 3035 Ga T 73-457863 Ga T 72-56 Coker 310 Ga T 73-119 McNair 3034 PD 3548 Deltapine 16 Stoneville 1114 Ga T 72-3 Coker 420-6913 Coker 420-6911 Stoneville 1073 Vail 7 PD 3572 PD 3608 Mo. 63-277J	Span length (2.5% 1.10 1.16 1.16 1.15 1.11 1.11 1.13 1.12 1.14 1.16 1.16 1.10 1.11 1.11 1.11	inches) 50% 0.51 .52 .51 .53 .52 .51 .53 .51 .53 .51 .52 .53 .53 .53 .53 .53 .53 .53 .53	Color Rd 69.8 70.0 69.8 70.6 71.3 70.1 71.5 70.0 73.5 71.3 71.3 71.9 69.8 69.6 71.4 70.7 69.5	### Hunter's b.value 8.1	Yarn tenacity (cN/tex) 12.2 12.5 11.8 12.8 12.8 12.5 11.9 12.7 11.7 12.6 12.5 13.3 13.0 12.7 11.1 13.2

Table 111.--High-quality test: Combined yield, boll, and spinning data for Tifton, Ga.; Florence, S.C.; Rocky Mount, N.C.; and Belle Mina, Ala., by cotton variety

/ariety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	709 a	5.48	40.7	10.1	5.50
McNair 3034	672 ab	5.90	41.4	10.6	5.17
Ga T 73-457863	669 ab	5.69	40.1	10.7	5.40
Coker 420-6913	665 ab	5.49	39.4	10.7	5.31
Ga T 73-4-19	665 ab	5.65	40.2	10.7	5.43
Coker 310	663 ab	5.70	39.8	10.6	5.39
Coker 3114	652 abc	5.26	41.4	10.1	5.32
Ga T 72-3	636 abcd	5.51	39.2	11.0	5.27
/ail 7	629 abcd	5.35	40.1	10.5	5.65
a T 72-56	620 abcde	5.73	39.3/	10.8	5.48
Coker 420-6911	617 abcde	5.48	39.1	10.9	5.40
Deltapine 16	611 abcde	5.77	39.3	10.6	5.58
Stoneville 1114	603 bcde	5.62	40.4	10.8	5.55
Stoneville 1073	583 bcde	5.15	38.9	10.3	5.20
D 3548	578 bcde	4.74	42.2	10.5	5.46
D 3608	556 cde -	6.13	39.0	11.5	5.52
D 3572	545 de	4.98	41.6	10.7	5.45
lo. 63-277J	541 de	5.91	38.0	12.1	4.90
10. 63-277 BR1	529 e	5.71	38.5	11.1	5.10
Acala 1517-70	427 f	5.72	35.8	11.6	4.81
	Span length (inches)	Color	imeter	Yarn
	Span length (inches) 50%		rimeter Hunter's	Yarn tenacity
			R_d		
McNair 3035				Hunter's	tenacity
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
McNair 3034	1.06	0.51	72.7	Hunter's b value	tenacity (cN/tex)
cNair 3034 a T 73-457863	1.06 1.07	0.51 .49	72.7 72.3	Hunter's b value 9.4 9.6	tenacity (cN/tex) 11.5 11.5
Coker 420-6913	1.06 1.07 1.12	50% 0.51 .49 .53	72.7 72.3 70.5	Hunter's b value 9.4 9.6 9.3	tenacity (cN/tex) 11.5 11.5 11.9
Coker 420-6913	1.06 1.07 1.12 1.12 1.09	50% 0.51 .49 .53 .53 .51	72.7 72.3 70.5 72.2	Hunter's b value 9.4 9.6 9.3 9.2	tenacity (cN/tex) 11.5 11.5 11.9 12.3
Coker 310 Coker 310	1.06 1.07 1.12 1.12 1.09 1.12	50% 0.51 .49 .53 .53 .51 .52	72.7 72.3 70.5 72.2 71.3 71.4	Hunter's b value 9.4 9.6 9.3 9.2 9.2	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4
Coker 310 Coker 310 Coker 310	1.06 1.07 1.12 1.12 1.09 1.12 1.11	50% 0.51 .49 .53 .53 .51 .52 .52	72.7 72.3 70.5 72.2 71.3 71.4 71.4	Hunter's b value 9.4 9.6 9.3 9.2 9.2	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9
Coker 310	1.06 1.07 1.12 1.12 1.09 1.12 1.11 1.09	50% 0.51 .49 .53 .53 .51 .52 .52	72.7 72.3 70.5 72.2 71.3 71.4 71.4	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.4	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7
Coker 310	1.06 1.07 1.12 1.12 1.12 1.11 1.09 1.11 1.09	50% 0.51 .49 .53 .53 .51 .52 .52 .52 .52	72.7 72.3 70.5 72.2 71.3 71.4 71.4 71.2 73.0	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.3	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7 10.9
Coker 420-6913 Coker 420-6913 Coker 310 Coker 3114 Coker 3114 Coker 3114 Coker 72-3 Coker 72-56	1.06 1.07 1.12 1.12 1.09 1.12 1.11 1.09 1.08 1.05	50% 0.51 .49 .53 .53 .51 .52 .52 .52 .50 .49	72.7 72.3 70.5 72.2 71.3 71.4 71.4 71.2 73.0 71.9	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.4	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7 10.9 11.3
Coker 420-6913 Coker 420-6913 Coker 310 Coker 3114 Coker 3114 Coker 420-6911 Coker 420-6911	1.06 1.07 1.12 1.12 1.09 1.12 1.11 1.09 1.08 1.05 1.12	50% 0.51 .49 .53 .53 .51 .52 .52 .52 .52 .59 .49 .53	72.7 72.3 70.5 72.2 71.3 71.4 71.4 71.2 73.0 71.9 70.9	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.2 9.0 9.0	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7 10.9 11.3 12.2
AcNair 3034 Ga T 73-457863 Coker 420-6913 Coker 310 Coker 3114 Ga T 72-3 Vail 7 Coker 420-6911 Deltapine 16	1.06 1.07 1.12 1.12 1.09 1.12 1.11 1.09 1.08 1.05 1.12 1.09	50% 0.51 .49 .53 .53 .51 .52 .52 .52 .50 .49 .53 .53	72.7 72.3 70.5 72.2 71.3 71.4 71.4 71.2 73.0 71.9 70.9 73.1	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.2 9.4 9.3 9.0 9.0 8.9	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7 10.9 11.3 12.2 11.4
AcNair 3034 Ga T 73-457863 Coker 420-6913 Coker 310 Coker 3114 Ga T 72-3 Coker 420-6911 Coker 420-6911 Coker 420-6911 Coker 420-6911 Coker 420-6911 Coker 420-6911	1.06 1.07 1.12 1.12 1.09 1.12 1.11 1.09 1.08 1.05 1.12 1.09	50% 0.51 .49 .53 .53 .51 .52 .52 .52 .50 .49 .53 .52 .52	72.7 72.3 70.5 72.2 71.3 71.4 71.4 71.2 73.0 71.9 70.9 73.1 71.1	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.2 9.3 9.3 9.0 9.0 8.9 9.3	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7 10.9 11.3 12.2 11.4 12.3
AcNair 3034 Ga T 73-457863 Coker 420-6913 Coker 310 Coker 3114 Ga T 72-3 Vail 7 Coker 420-6911	1.06 1.07 1.12 1.12 1.12 1.11 1.09 1.08 1.05 1.12 1.09 1.09	50% 0.51 .49 .53 .53 .51 .52 .52 .52 .50 .49 .53 .52 .52 .52	72.7 72.3 70.5 72.2 71.3 71.4 71.4 71.2 73.0 71.9 70.9 73.1 71.1 70.3	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.2 9.3 9.3 9.0 9.0 8.9 9.3	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7 10.9 11.3 12.2 11.4 12.3
McNair 3034 Ga T 73-457863 Coker 420-6913 Coker 310 Coker 3114 Ga T 72-3 Vail 7 Coker 420-6911	1.06 1.07 1.12 1.12 1.09 1.12 1.11 1.09 1.08 1.05 1.12 1.09 1.09 1.09	50% 0.51 .49 .53 .53 .51 .52 .52 .52 .50 .49 .53 .52 .52 .52 .52 .52	72.7 72.3 70.5 72.2 71.3 71.4 71.4 71.2 73.0 71.9 70.9 73.1 71.1 70.3 69.6	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.4 9.3 9.0 9.0 8.9 9.3 9.3	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7 10.9 11.3 12.2 11.4 12.3 12.4 11.9
Genair 3034 Ga T 73-457863 Goker 420-6913 Goker 310 Coker 3114 Ga T 72-3 Ga T 72-56 Coker 420-6911 Coker 420-6911 Cotoneville 1114 Cotoneville 1073	1.06 1.07 1.12 1.12 1.09 1.12 1.11 1.09 1.08 1.05 1.12 1.09 1.09 1.08	50% 0.51 .49 .53 .53 .51 .52 .52 .52 .50 .49 .53 .52 .52 .52 .52 .52 .52 .52 .52 .52 .52	72.7 72.3 70.5 72.2 71.3 71.4 71.4 71.2 73.0 71.9 70.9 73.1 71.1 70.3 69.6 70.1	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.4 9.3 9.0 9.0 8.9 9.3 9.3 9.3	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7 10.9 11.3 12.2 11.4 12.3 12.4 11.9 12.7
McNair 3034 Ga T 73-457863 Coker 420-6913 Coker 310 Coker 3114 Ga T 72-3 Vail 7 Coker 420-6911 Coker 420-6911 Cotoneville 1114 Stoneville 1073 PD 3548 PD 3608 PD 3572	1.06 1.07 1.12 1.12 1.09 1.12 1.11 1.09 1.08 1.05 1.12 1.09 1.09 1.09 1.09 1.09	50% 0.51 .49 .53 .53 .51 .52 .52 .52 .50 .49 .53 .52 .52 .52 .52 .52 .52 .52 .52 .52 .52	72.7 72.3 70.5 72.2 71.3 71.4 71.4 71.2 73.0 71.9 70.9 73.1 71.1 70.3 69.6 70.1 70.6	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.4 9.3 9.0 9.0 8.9 9.3 9.3 9.3 9.6 9.2	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7 10.9 11.3 12.2 11.4 12.3 12.4 11.9 12.7 12.3
McNair 3035 McNair 3034 Ga T 73-457863 Coker 420-6913 Ga T 73-119 Coker 310 Coker 3114 Ga T 72-3 Vail 7 Ga T 72-56 Coker 420-6911	1.06 1.07 1.12 1.12 1.09 1.12 1.11 1.09 1.08 1.05 1.12 1.09 1.09 1.08	50% 0.51 .49 .53 .53 .51 .52 .52 .52 .50 .49 .53 .52 .52 .52 .52 .52 .52 .52 .52 .52 .52	72.7 72.3 70.5 72.2 71.3 71.4 71.4 71.2 73.0 71.9 70.9 73.1 71.1 70.3 69.6 70.1	Hunter's b value 9.4 9.6 9.3 9.2 9.2 9.2 9.2 9.4 9.3 9.0 9.0 8.9 9.3 9.3 9.3	tenacity (cN/tex) 11.5 11.5 11.9 12.3 11.4 11.9 12.0 11.7 10.9 11.3 12.2 11.4 12.3 12.4 11.9 12.7

Table 112.--High-quality test: Yield, boll, and spinning data for Florence, S.C.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	1310 a	6.66	39.4	11.3	5.35
McNair 3034	1217 ab	6.28	40.7	11.4	4.90
Coker 3114	1209 ab	5.73	40.0	10.9	5.00
Ga T 73-457863	1183 bc	6.35	38.3	12.0	5.05
Coker 420-6913	1174 bcd	6.35	36.5	12.0	5.05
Coker 310	1153 bcde	6.71	38.2	12.1	5.05
Ga T 73-119	1140 bcdef	6.13	38.4	12.1	5.30
Ga T 72-3	1072 cdefg	6.22	36.9	12.1	5.10
Ga T 72-56	1061 defg	6.48	37.5	11.6	5.25
PD 3572	1039 efg	5.75	40.7	12.1	5.20
PD 3608	1025 fg	7.42	3.7.8	13.5	5.55
Deltapine 16	1021 fg	6.46	37.1	11.7	5.45
Stoneville 1114	1012 gh	6.67	39.4	12.1	5.55
Coker 420-6911	994 gh	6.31	36.3	12.4	5.35
Vail 7	992 gh	6.16	38.1	11.6	5.50
PD 3548	969 gh	5.31	40.3	11.6	5.30
Mo. 63-277J	958 gh	6.71	37.3	13.1	4.65
Stoneville 1073	958 gh	5.83	38.2	11.4	5.10
Mo. 63-277 BR1	894 h	6.62	38.2	11.9	4.85
Acala 1517-70	739 i	6.77	34.9	13.0	4.60
ACCITA 1517 /0		0 . , ,			
Acara 1317 70					Yarn
7.cara 1317 70	Span length (inches)	Color	imeter	Yarn tenacity
Acara 1317 70					Yarn tenacity (cN/tex)
	Span length (inches)	Color	imeter Hunter's	tenacity
McNair 3033	Span length (inches) 50%	$\frac{\text{Color}}{R_d}$	imeter Hunter's b value	tenacity (cN/tex)
McNair 3033 McNair 3034	Span length (2.5% 1.15 1.15	inches) 50% 0.56	Color R_d	imeter Hunter's b value	tenacity (cN/tex)
McNair 3033 McNair 3034 Coker 3114	Span length (2.5% 1.15 1.15	inches) 50% 0.56 .55	Color R _d 75.9 76.8	imeter Hunter's b value 9.4 9.4	tenacity (cN/tex) 12.6 12.1
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863	Span length (2.5% 1.15 1.15 1.18 1.21	inches) 50% 0.56 .55 .54	75.9 76.8 74.3	Hunter's b value 9.4 9.4 8.6	tenacity (cN/tex) 12.6 12.1 12.9
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913	Span length (2.5% 1.15 1.15 1.18 1.21 1.18	inches) 50% 0.56 .55 .54 .57	75.9 76.8 74.3	Hunter's b value 9.4 9.4 8.6 9.5	tenacity (cN/tex) 12.6 12.1 12.9 12.7
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23	inches) 50% 0.56 .55 .54 .57	75.9 76.8 74.3 74.3	imeter Hunter's b value 9.4 9.4 8.6 9.5 8.8	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16	inches) 50% 0.56 .55 .54 .57 .57	75.9 76.8 74.3 74.3 74.9 74.5	#unter's b value 9.4 9.4 8.6 9.5 8.8 8.5	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119 Ga T 72-3	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15	0.56 .55 .54 .57 .57 .59	Color R _d 75.9 76.8 74.3 74.3 74.5 75.2	#unter's b value 9.4 9.4 8.6 9.5 8.8 8.5 9.5	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119 Ga T 72-3 Ga T 72-56	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15 1.12	inches) 50% 0.56 .55 .54 .57 .57 .59 .54 .55	Color R _d 75.9 76.8 74.3 74.3 74.9 74.5 75.2 73.5	#unter's b value 9.4 9.4 8.6 9.5 8.8 8.5 9.5 9.6	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8 12.4
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119 Ga T 72-3 Ga T 72-56	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15 1.19	0.56 .55 .54 .57 .57 .59 .54	Color R _d 75.9 76.8 74.3 74.3 74.5 75.2 73.5 75.3	#unter's b value 9.4 9.4 9.5 8.6 9.5 8.8 8.5 9.5 9.6 9.2	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8 12.4 12.1
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119 Ga T 72-3 Ga T 72-56 PD 3572	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15 1.12 1.19 1.21	inches) 50% 0.56 .55 .54 .57 .57 .59 .54 .55 .53 .57	Color R _d 75.9 76.8 74.3 74.3 74.5 75.2 73.5 75.3 74.8 72.0	#unter's b value 9.4 9.4 8.6 9.5 8.8 8.5 9.5 9.6 9.2 9.0	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8 12.4 12.1 12.5 13.3
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119 Ga T 72-3 Ga T 72-56 PD 3572 PD 3608 Deltapine 16	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15 1.12 1.19 1.21 1.15	inches) 50% 0.56 .55 .54 .57 .57 .59 .54 .55 .53 .57	Color R _d 75.9 76.8 74.3 74.3 74.9 74.5 75.2 73.5 75.3 74.8	#unter's b value 9.4 9.4 9.4 8.6 9.5 8.8 8.5 9.5 9.6 9.2 9.0 9.5	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8 12.4 12.1 12.5 13.3 13.4
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119 Ga T 72-3 Ga T 72-56 PD 3572 PD 3608 Deltapine 16 Stoneville 1114	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15 1.12 1.19 1.21 1.15	inches) 50% 0.56 .55 .54 .57 .57 .59 .54 .55 .53 .57 .53	Color Rd 75.9 76.8 74.3 74.3 74.5 75.2 73.5 75.3 74.8 72.0 77.6	#unter's b value 9.4 9.4 8.6 9.5 8.8 8.5 9.5 9.6 9.2 9.0 9.5 8.5	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8 12.4 12.1 12.5 13.3 13.4 11.9
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119 Ga T 72-3 Ga T 72-56 PD 3572 PD 3608 Deltapine 16 Stoneville 1114 Coker 420-6911	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15 1.12 1.19 1.21 1.19 1.21	inches) 50% 0.56 .55 .54 .57 .59 .54 .55 .53 .57 .57 .55 .53 .57 .57	Color R d 75.9 76.8 74.3 74.3 74.9 74.5 75.2 73.5 75.3 74.8 72.0 77.6 74.6 73.7	#unter's b value 9.4 9.4 8.6 9.5 8.8 8.5 9.5 9.6 9.2 9.0 9.5 8.5 9.4	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8 12.4 12.1 12.5 13.3 13.4 11.9 12.9
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119 Ga T 72-3 Ga T 72-56 PD 3572 PD 3608 Deltapine 16 Stoneville 1114 Coker 420-6911 Vail 7	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15 1.12 1.19 1.21 1.19 1.21 1.15 1.17	inches) 50% 0.56 .55 .54 .57 .57 .59 .54 .55 .53 .57 .57 .57 .55 .53 .57 .57	Color Rd 75.9 76.8 74.3 74.3 74.9 74.5 75.2 73.5 75.3 74.8 72.0 77.6 74.6 73.7 76.0	######################################	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8 12.4 12.1 12.5 13.3 13.4 11.9 12.9 12.8 11.8
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Ga T 73-119 Ga T 72-3 Ga T 72-56 PD 3572 PD 3608 Deltapine 16 Stoneville 1114 Coker 420-6911 Vail 7 PD 3548	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15 1.12 1.19 1.21 1.19 1.21 1.15 1.17 1.15	inches) 50% 0.56 .55 .54 .57 .59 .54 .55 .53 .57 .57 .57 .57 .57 .57	Color R d 75.9 76.8 74.3 74.3 74.9 74.5 75.2 73.5 75.3 74.8 72.0 77.6 74.6 73.7 76.0 73.3	######################################	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8 12.4 12.1 12.5 13.3 13.4 11.9 12.9 12.9 12.8 11.8 13.0
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119 Ga T 72-3 Ga T 72-56 PD 3572 PD 3608 Deltapine 16 Stoneville 1114 Coker 420-6911 Vail 7 PD 3548 Mo. 63-277J	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15 1.12 1.19 1.21 1.15 1.17 1.18	inches) 50% 0.56 .55 .54 .57 .59 .54 .55 .53 .57 .57 .57 .57 .57 .57	Color Rd 75.9 76.8 74.3 74.3 74.9 74.5 75.2 73.5 75.3 74.8 72.0 77.6 74.6 73.7 76.0 73.3 73.0	### Hunter's b value 9.4 9.4 8.6 9.5 8.8 8.5 9.5 9.6 9.2 9.0 9.5 8.5 9.4 8.7 9.2 9.6 9.9	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8 12.4 12.1 12.5 13.3 13.4 11.9 12.9 12.8 11.8 13.0 12.2
McNair 3033 McNair 3034 Coker 3114 Ga T 73-457863 Coker 420-6913 Coker 310 Ga T 73-119 Ga T 72-3 Ga T 72-56 PD 3572 PD 3608 Deltapine 16 Stoneville 1114 Coker 420-6911 Vail 7 PD 3548 Mo. 63-277J Stoneville 1073	Span length (2.5% 1.15 1.15 1.18 1.21 1.18 1.23 1.16 1.15 1.12 1.19 1.21 1.19 1.21 1.15 1.17 1.15	inches) 50% 0.56 .55 .54 .57 .59 .54 .55 .53 .57 .57 .57 .57 .57 .57	Color R d 75.9 76.8 74.3 74.3 74.9 74.5 75.2 73.5 75.3 74.8 72.0 77.6 74.6 73.7 76.0 73.3	######################################	tenacity (cN/tex) 12.6 12.1 12.9 12.7 12.8 12.8 12.4 12.1 12.5 13.3 13.4 11.9 12.9 12.8 11.8 13.0 12.2 13.4

Table 113.--High-quality test: Yield, boll, and spinning data for St. Joseph, La.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 420-6913	1232 a	6.03	39.0	12.3	5.00
Ga T 72-56	1223 ab	5.51	39.6	11.0	5.20
McNair 3035	1196 ab	5.83	40.3	10.6	5.50
Coker 310	1188 abc	6.26	40.6	10.9	5.05
McNair 3034	1183 abc	6.21	42.2	11.0	5.10
Coker 3114	1177 abc	5.83	42.0	10.1	5.05
Ga T 73-457863	1150 abc	5.68	41.4	11.4	5.15
Ga T 73-119	1107 abc	5.81	40.6	11.1	5.10
PD 3608	1074 abcd	6.50	39.1	12.5	5.20
PD 3548	1073 abcd	5.23	42.3	11.9	5.55
Deltapine 16	1070 abcd	6.00	39.0	11.4	5.50
Ga T 72-3	1063 abcd	5.49	37.8	12.1	5.00
Coker 420-6911	1055 abcd	5.89	39.7	11.3	5.15
Stoneville 1073	1039 abcd	5.15	39.4	10.5	5.00
PD 3572	1017 bcd	5.27	43.3	11.4	5.30
Stoneville 1114	980 de	5.81	40.4	11.8	5.30
Mo. 63-277J	890 de	6.12	38.9	12.4	4.65
Vail 7	871 de	5.71	37.8	11.0	5.50
Mo. 63-277 BR1	799 e	5.94	39.4	11.4	4.75
Acala 1517-70	597 f	5.88	37.7	12.9	4.55
	Span length (imeter	Yarn
	Span length (inches) 50%		Hunter's	tenacity
			$\frac{\text{Color}}{R_d}$		
Coker 420-6913				Hunter's	tenacity
Coker 420-6913 Ga T 72-56	1.17	50%	R_d	Hunter's b value 9.9 9.3	tenacity (cN/tex)
Ga T 72-56	1.17	0.54	73.7	Hunter's b value	tenacity (cN/tex)
Ga T 72-56	1.17	50% 0.54 .54	73.7 70.3	Hunter's b value 9.9 9.3 9.8 9.6	tenacity (cN/tex) 13.3 11.3 12.0 12.4
Ga T 72-56 McNair 3035	1.17 1.12 1.12	50% 0.54 .54 .55	73.7 70.3 72.9	Hunter's b value 9.9 9.3 9.8 9.6 9.1	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7
Ga T 72-56 McNair 3035 Coker 310	1.17 1.12 1.12 1.12	0.54 .54 .55 .55	73.7 70.3 72.9 71.7	Hunter's b value 9.9 9.3 9.8 9.6	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9
Ga T 72-56	1.17 1.12 1.12 1.12 1.17 1.10	50% 0.54 .54 .55 .55	73.7 70.3 72.9 71.7 73.6	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16	50% 0.54 .54 .55 .55 .55	73.7 70.3 72.9 71.7 73.6 73.7	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7
Ga T 72-56 McNair 3035 Coker 310 McNair 3034 Coker 3114 Ga T 73-457863	1.17 1.12 1.12 1.12 1.17 1.10 1.16 1.15	50% 0.54 .54 .55 .55 .51 .55 .53	73.7 70.3 72.9 71.7 73.6 73.7 71.5	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16 1.15 1.16	50% 0.54 .54 .55 .55 .55 .51 .55 .53	73.7 70.3 72.9 71.7 73.6 73.7 71.5	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3 9.9 10.0 10.1	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9 12.4
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16 1.15 1.16 1.17	50% 0.54 .54 .55 .55 .51 .55 .53 .53 .57	73.7 70.3 72.9 71.7 73.6 73.7 71.5 71.5	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3 9.9 10.0 10.1 9.2	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9 12.4 11.2
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16 1.15 1.16 1.17	50% 0.54 .54 .55 .55 .51 .55 .53 .53 .53 .57	73.7 70.3 72.9 71.7 73.6 73.7 71.5 71.5 70.6 71.3	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3 9.9 10.0 10.1 9.2 9.6	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9 12.4 11.2 12.3
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16 1.15 1.16 1.17 1.13	50% 0.54 .54 .55 .55 .55 .51 .55 .53 .53 .57 .55	73.7 70.3 72.9 71.7 73.6 73.7 71.5 71.5 71.5	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3 9.9 10.0 10.1 9.2	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9 12.4 11.2 12.3 12.7
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16 1.15 1.16 1.17 1.13 1.17	50% 0.54 .54 .55 .55 .51 .55 .53 .53 .57 .55 .55 .55	73.7 70.3 72.9 71.7 73.6 73.7 71.5 71.5 70.6 71.3 75.4 73.5	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3 9.9 10.0 10.1 9.2 9.6	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9 12.4 11.2 12.3 12.7 11.7
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16 1.15 1.16 1.17 1.13 1.17	50% 0.54 .54 .55 .55 .51 .55 .53 .53 .57 .55 .55 .55 .55	73.7 70.3 72.9 71.7 73.6 73.7 71.5 71.5 71.5 70.6 71.3 75.4 73.5 70.5	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3 9.9 10.0 10.1 9.2 9.6 9.8	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9 12.4 11.2 12.3 12.7 11.7 13.4
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16 1.15 1.16 1.17 1.13 1.17 1.13	50% 0.54 .54 .55 .55 .51 .55 .53 .53 .57 .55 .55 .55 .55 .55	73.7 70.3 72.9 71.7 73.6 73.7 71.5 71.5 70.6 71.3 75.4 73.5 70.5 71.8	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3 9.9 10.0 10.1 9.2 9.6 9.8 10.1	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9 12.4 11.2 12.3 12.7 11.7
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16 1.15 1.16 1.17 1.13 1.17 1.13 1.17	50% 0.54 .54 .55 .55 .51 .55 .53 .53 .57 .55 .55 .55 .55 .55 .55	73.7 70.3 72.9 71.7 73.6 73.7 71.5 71.5 71.5 70.6 71.3 75.4 73.5 70.5 71.8 71.7	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3 9.9 10.0 10.1 9.2 9.6 9.8 10.1 9.8	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9 12.4 11.2 12.3 12.7 11.7 13.4 10.5 12.4
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16 1.15 1.16 1.17 1.13 1.17 1.13 1.17 1.15 1.14 1.11	50% 0.54 .54 .55 .55 .51 .55 .53 .53 .57 .55 .55 .55 .55 .55 .55	73.7 70.3 72.9 71.7 73.6 73.7 71.5 71.5 71.5 70.6 71.3 75.4 73.5 70.5 71.8 71.7 73.6	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3 9.9 10.0 10.1 9.2 9.6 9.8 10.1 9.8 9.4	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9 12.4 11.2 12.3 12.7 11.7 13.4 10.5
Ga T 72-56	1.17 1.12 1.12 1.17 1.10 1.16 1.15 1.16 1.17 1.13 1.17 1.13 1.17 1.15 1.14 1.11	50% 0.54 .54 .55 .55 .51 .55 .53 .53 .57 .55 .55 .55 .55 .55 .55 .55 .55	73.7 70.3 72.9 71.7 73.6 73.7 71.5 71.5 70.6 71.3 75.4 73.5 70.5 71.8 71.7 73.6 72.7	Hunter's b value 9.9 9.3 9.8 9.6 9.1 9.9 10.3 9.9 10.0 10.1 9.2 9.6 9.8 10.1 9.8 9.4 10.0	tenacity (cN/tex) 13.3 11.3 12.0 12.4 11.7 12.9 12.5 12.7 10.9 12.4 11.2 12.3 12.7 11.7 13.4 10.5 12.4

Table 114.--High-quality test: Yield, boll, and spinning data for Jackson, Tenn.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	946 a	6.19	35.5	10.8	4.50
Stoneville 1073	849 b	5.68	34.6	11.4	4.40
Coker 3114	821 bc	5.83	37.0	10.0	4.50
Ga T 72-56	818 bc	6.15	36.1	11.3	4.80
Ga T 73-457863	810 bcd	6.43	36.5	11.5	4.50
PD 3548	809 bcd	5.27	38.5	10.8	4.70
McNair 3034	796 bcde	6.59	36.0	11.8	4.55
Coker 310	781 bcdef	6.59	35.4	12.0	4.45
Ga T 73-119	779 cdef	6.15	36.1	11.7	4.50
Coker 420-6911	772 cdefg	6.04	35.0	11.2	4.55
PD 3572	767 cdefg	5.31	39.8	10.9	4.30
Ga T 72-3	764 cdefgh	6.09	33.6	11.9	4.30
Deltapine 16	758 cdefgh	6.59	35.1	11.2	4.70
Coker 420-6913	745 defgh	6.33	34.1	11.8	4.40
Mo. 63-277 BR1	737 efgh	6.54	35.6	11.2	4.20
Stoneville 1114	718 fghi	6.07	37.4	10.9	4.95
Vail 7	703 ghi	5.88	35.3	10.5	4.75
PD 3608	697 hi	7.02	35.4	13.0	4.45
Mo. 63-277J	671 i	7.06	34.2	12.4	4.20
Acala 1517-70	670 i	6.30	33.9	11.6	4.35
	Span length (inches) 50%	extstyle e	imeter Hunter's b value	Yarn tenacity (cN/tex)
M N : 3035	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
	1.13	0.54	74.1	Hunter's b value	tenacity (cN/tex)
Stoneville 1073	1.13	50% 0.54 .55	74.1 73.9	Hunter's b value 9.4 9.8	tenacity (cN/tex) 13.2 13.5
Stoneville 1073 Coker 3114	1.13 1.12 1.19	50% 0.54 .55 .57	74.1 73.9 75.1	Hunter's b value 9.4 9.8 9.7	tenacity (cN/tex) 13.2 13.5 13.0
Stoneville 1073 Coker 3114 Ga T 72-56	1.13 1.12 1.19 1.09	50% 0.54 .55 .57 .51	74.1 73.9 75.1 74.7	Hunter's b value 9.4 9.8 9.7 9.7	tenacity (cN/tex) 13.2 13.5 13.0 11.7
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863	1.13 1.12 1.19 1.09 1.19	50% 0.54 .55 .57 .51 .57	74.1 73.9 75.1 74.7 74.1	Hunter's b value 9.4 9.8 9.7 9.7	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548	1.13 1.12 1.19 1.09 1.19	50% 0.54 .55 .57 .51 .57 .54	74.1 73.9 75.1 74.7 74.1 73.4	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.8	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034	1.13 1.12 1.19 1.09 1.19 1.11	50% 0.54 .55 .57 .51 .57 .54 .54	74.1 73.9 75.1 74.7 74.1 73.4 75.2	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.8 9.8	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20	50% 0.54 .55 .57 .51 .57 .54 .54	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.7 9.8 9.8 9.8	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119	1.13 1.12 1.19 1.09 1.19 1.11	50% 0.54 .55 .57 .51 .57 .54 .54	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.7 9.8 9.8 9.8 9.2 9.7	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9 13.2
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119 Coker 420-6911	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20	50% 0.54 .55 .57 .51 .57 .54 .54 .57 .56 .53	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9 72.5	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.7 9.8 9.8 9.2 9.7 9.7	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119 Coker 420-6911 PD 3572	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20 1.16 1.15 1.14	50% 0.54 .55 .57 .51 .57 .54 .54 .55	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.7 9.8 9.8 9.2 9.7 9.7 9.5	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9 13.2
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119 Coker 420-6911 PD 3572 Ga T 72-3	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20 1.16 1.15	50% 0.54 .55 .57 .51 .57 .54 .54 .57 .56 .53	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9 72.5	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.7 9.8 9.8 9.2 9.7 9.7	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9 13.2 13.0
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119 Coker 420-6911 PD 3572 Deltapine 16	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20 1.16 1.15 1.14	50% 0.54 .55 .57 .51 .57 .54 .54 .57 .56 .53 .55	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9 72.5 74.7	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.7 9.8 9.8 9.2 9.7 9.7 9.5	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9 13.2 13.0 13.6
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119 Coker 420-6911 PD 3572 Deltapine 16	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20 1.16 1.15 1.14	50% 0.54 .55 .57 .51 .57 .54 .54 .57 .56 .53 .55	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9 72.5 74.7 75.7	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.7 9.8 9.8 9.2 9.7 9.7 9.5 9.5	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9 13.2 13.0 13.6 13.0
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119 Coker 420-6911 PD 3572 Ga T 72-3 Deltapine 16 Coker 420-6913	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20 1.16 1.15 1.14 1.16	50% 0.54 .55 .57 .51 .57 .54 .54 .57 .56 .53 .55 .56 .52	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9 72.5 74.7 75.7	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.7 9.8 9.8 9.2 9.7 9.7 9.5 9.5 9.4	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9 13.2 13.0 13.6 13.0
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119 Coker 420-6911 PD 3572 Ga T 72-3 Deltapine 16 Coker 420-6913 Mo. 63-277 BR1	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20 1.16 1.15 1.14 1.16 1.15	50% 0.54 .55 .57 .51 .57 .54 .54 .57 .56 .53 .55 .56 .55	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9 72.5 74.7 75.7 76.1 74.7	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.8 9.8 9.8 9.2 9.7 9.5 9.5 9.5 9.4	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9 13.2 13.0 13.6 13.0 13.6
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119 Coker 420-6911 PD 3572 Deltapine 16 Coker 420-6913 Mo. 63-277 BR1 Stoneville 1114	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20 1.16 1.15 1.14 1.16 1.15	50% 0.54 .55 .57 .51 .57 .54 .54 .57 .56 .53 .55 .56 .55 .56	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9 72.5 74.7 75.7 76.1 74.7 74.9	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.7 9.8 9.8 9.2 9.7 9.7 9.5 9.5 9.4 9.6 9.9	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9 13.2 13.0 13.6 13.0 13.6 13.0
Stoneville 1073 Coker 3114 Ga T 72-56 Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119 Coker 420-6911 PD 3572 Deltapine 16 Coker 420-6913 Mo. 63-277 BR1 Stoneville 1114 Vail 7	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20 1.16 1.15 1.14 1.16 1.15 1.14	50% 0.54 .55 .57 .51 .57 .54 .54 .55 .56 .55 .56 .55 .56 .55 .56 .52 .57 .53	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9 72.5 74.7 75.7 76.1 74.7 74.9 74.7	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.8 9.8 9.2 9.7 9.5 9.5 9.5 9.4 9.6 9.9	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9 13.2 13.0 13.6 13.0 12.2 13.6 14.4 13.4
Ga T 73-457863 PD 3548 McNair 3034 Coker 310 Ga T 73-119 Coker 420-6911 PD 3572 Ga T 72-3 Deltapine 16 Coker 420-6913 Mo. 63-277 BR1 Stoneville 1114 Vail 7 PD 3608	1.13 1.12 1.19 1.09 1.19 1.11 1.14 1.20 1.16 1.15 1.14 1.16 1.12 1.19 1.18 1.13	50% 0.54 .55 .57 .51 .57 .54 .54 .55 .56 .53 .55 .56 .57 .57 .57	74.1 73.9 75.1 74.7 74.1 73.4 75.2 75.4 73.9 72.5 74.7 75.7 76.1 74.7 74.9 74.3	Hunter's b value 9.4 9.8 9.7 9.7 9.7 9.7 9.8 9.8 9.2 9.7 9.5 9.5 9.5 9.5 9.7 9.9	tenacity (cN/tex) 13.2 13.5 13.0 11.7 13.5 13.2 12.4 13.9 13.2 13.0 13.6 13.0 12.2 13.6 14.4 13.4 11.5

Table 115.--High-quality test: Yield, boll, and spinning data for Stoneville, Miss.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Ga T 73-457863	936 a	5.14	38.8	11.3	5.15
Ga T 73-119	893 a	5.45	37.2	12.0	5.00
Mo. 63-277 BR1	870 ab	5.59	39.5	11.8	4.65
Deltapine 16	865 abc	5.57	36.2	11.1	5.00
McNair 3035	848 abc	5.26	38.8	10.6	5.55
Stoneville 1114	832 abc	5.22	38.9	11.5	5.40
Ga T 72-56	831 abc	5.77	36.2	12.4	5.45
Coker 310	825 abc	5.64	34.9	12.5	4.90
PD 3548	814 abcd	4.94	40.7	11.0	5.40
McNair 3034	813 abcd	5.70	37.6	11.6	4.80
Coker 3114	800 abcde	5.07	36.7	11.3	4.75
Coker 420-6911	734 bcdef	5.31	33.9	12.4	5.00
Ga T 72-3	730 cdef	5.55	33.9	12.5	5.10
PD 3608	688 def	6.11	37.1	12.8	5.00
Coker 420-6913	680 def	5.42	35.0	12.0	4.80
Stoneville 1073	678 def	4.77	36.0	11.3	4.85
PD 3572	670 ef	5.22	40.4	11.4	5.30
Mo. 63-277J	661 f	5.33	36.5	12.2	4.60
Vail 7	626 f	5.04	36.9	10.9	5.25
Acala 1517-70	418 g	5.61	34.4	13.1	4.50
	Span length (inches)		imeter	Yarn
	2.5%	50%	R_d	Hunter's	tenacity
			<u> </u>	b value	(cN/tex)
Ga T 73-457863	1.19	0.52	71.3	7.5	11.6
Ga T 73-119	1.16	.50	71.6	8.0	11.5
Mo. 63-277 BR 1	1.16	.52	71.8	8.3	17 7
Deltapine 16	1.11			0.5	13.3
McNair 3035	1.11	.47	76.2	7.7	13.3
Stoneville 1114	1.06	.47 .49			
			76.2	7.7	11.6
Ga T 72-56	1.06	.49	76.2 73.1	7.7 7.7	11.6 11.7
Ga T 72-56 Coker 310	1.06 1.15	.49 .53	76.2 73.1 72.7	7.7 7.7 7.7	11.6 11.7 12.9
	1.06 1.15 1.12	.49 .53 .52	76.2 73.1 72.7 71.5	7.7 7.7 7.7 7.6	11.6 11.7 12.9 11.6
Coker 310	1.06 1.15 1.12 1.19	.49 .53 .52 .51	76.2 73.1 72.7 71.5 71.7	7.7 7.7 7.7 7.6 7.4	11.6 11.7 12.9 11.6 13.0
Coker 310	1.06 1.15 1.12 1.19 1.11	.49 .53 .52 .51	76.2 73.1 72.7 71.5 71.7 72.0	7.7 7.7 7.7 7.6 7.4 8.2	11.6 11.7 12.9 11.6 13.0 12.2 12.0 12.9
Coker 310 PD 3548 McNair 3034	1.06 1.15 1.12 1.19 1.11	.49 .53 .52 .51 .51	76.2 73.1 72.7 71.5 71.7 72.0 73.9	7.7 7.7 7.7 7.6 7.4 8.2 8.0	11.6 11.7 12.9 11.6 13.0 12.2
Coker 310 PD 3548 McNair 3034 Coker 3114	1.06 1.15 1.12 1.19 1.11 1.14	.49 .53 .52 .51 .51 .50	76.2 73.1 72.7 71.5 71.7 72.0 73.9 71.6	7.7 7.7 7.7 7.6 7.4 8.2 8.0 7.4	11.6 11.7 12.9 11.6 13.0 12.2 12.0 12.9
Coker 310 PD 3548 McNair 3034 Coker 3114 Coker 420-6911	1.06 1.15 1.12 1.19 1.11 1.14 1.17	.49 .53 .52 .51 .51 .50 .49	76.2 73.1 72.7 71.5 71.7 72.0 73.9 71.6 71.6	7.7 7.7 7.7 7.6 7.4 8.2 8.0 7.4 8.7	11.6 11.7 12.9 11.6 13.0 12.2 12.0 12.9
Coker 310 PD 3548 McNair 3034 Coker 3114 Coker 420-6911 Ga T 72-3 PD 3608	1.06 1.15 1.12 1.19 1.11 1.14 1.17 1.19	.49 .53 .52 .51 .51 .50 .49 .53	76.2 73.1 72.7 71.5 71.7 72.0 73.9 71.6 71.6 72.2	7.7 7.7 7.7 7.6 7.4 8.2 8.0 7.4 8.7 7.8	11.6 11.7 12.9 11.6 13.0 12.2 12.0 12.9 12.6 12.5
Coker 310 PD 3548 McNair 3034 Coker 3114 Coker 420-6911 Ga T 72-3 PD 3608 Coker 420-6913	1.06 1.15 1.12 1.19 1.11 1.14 1.17 1.19 1.14 1.17	.49 .53 .52 .51 .51 .50 .49 .53 .53	76.2 73.1 72.7 71.5 71.7 72.0 73.9 71.6 71.6 72.2 71.4	7.7 7.7 7.7 7.6 7.4 8.2 8.0 7.4 8.7 7.8	11.6 11.7 12.9 11.6 13.0 12.2 12.0 12.9 12.6 12.5 13.7
Coker 310	1.06 1.15 1.12 1.19 1.11 1.14 1.17 1.19 1.14 1.17 1.16 1.12	.49 .53 .52 .51 .51 .50 .49 .53 .53 .53	76.2 73.1 72.7 71.5 71.7 72.0 73.9 71.6 71.6 72.2 71.4 72.9	7.7 7.7 7.7 7.6 7.4 8.2 8.0 7.4 8.7 7.8 8.3	11.6 11.7 12.9 11.6 13.0 12.2 12.0 12.5 13.7 13.8
Coker 310	1.06 1.15 1.12 1.19 1.11 1.14 1.17 1.19 1.14 1.17 1.16 1.12	.49 .53 .52 .51 .51 .50 .49 .53 .53	76.2 73.1 72.7 71.5 71.7 72.0 73.9 71.6 71.6 71.6 72.2 71.4 72.9 70.4	7.7 7.7 7.7 7.6 7.4 8.2 8.0 7.4 8.7 7.8 8.3 8.2 7.9	11.6 11.7 12.9 11.6 13.0 12.2 12.0 12.9 12.6 12.5 13.7 13.8 12.3
Coker 310 PD 3548 McNair 3034 Coker 3114 Coker 420-6911 Ga T 72-3 PD 3608 Coker 420-6913 Stoneville 1073	1.06 1.15 1.12 1.19 1.11 1.14 1.17 1.19 1.14 1.17 1.16 1.12	.49 .53 .52 .51 .51 .50 .49 .53 .53 .53 .53	76.2 73.1 72.7 71.5 71.7 72.0 73.9 71.6 71.6 71.6 72.2 71.4 72.9 70.4 72.6	7.7 7.7 7.7 7.6 7.4 8.2 8.0 7.4 8.7 7.8 8.3 8.2 7.9	11.6 11.7 12.9 11.6 13.0 12.2 12.0 12.9 12.6 12.5 13.7 13.8 12.3 13.1

Table 116.--High-quality test: Yield, boll, and spinning data for Portageville, Mo.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	881 a	5.70	35.6	11.2	4.60
Ga T 73-457863	875 a	5.25	37.1	11.4	4.85
PD 3548	854 ab	5.55	38.9	11.9	4.75
Coker 310	843 abc	6.30	36.6	12.0	4.70
a T 72-3	838 abc	6.40	35.6	12.9	4.70
а Т 72-56	824 abc	5.60	35.9	12.2	5.00
coneville 1114	819 abc	5.55	37.6	11.6	5.00
1 7	801 abc	5.35	35.8	12.7	4.85
oneville 1073	793 abc	5.60	36.4	11.8	4.45
ker 3114	787 abcd	5.65	37.8	11.0	4.55
Т 73-119	745 abcd	5.30	35.5	11.8	4.55
tapine 16	728 abcd	6.80	36.7	11.8	5.00
. 63-277J	726 abcd	6.65	35.5	13.6	4.75
3572	724 abcd	5.10	37.9	11.9	4.60
ker 420-6913	719 abcd	5.45	34.6	11.3	4.65
ker 420-6911	706 bcd	5.80	35.0	12,2	4.95
. 63-277 BR1	687 bcd	5.95	35.2	12.3	4.20
Nair 3034	679 cd	6.15	36.9	11.6	4.85
3608	623 d	5.85	37.1	13.3	4.60
ala 1517-70	467 e	5.95	33.7	12.9	4.25
	Span length (inches	Color	imeter	Yarn
	2.5%				
	/ 5/2	50%	K	Hunter's	Tenacity
	2.5%	50%	R_{d}	Hunter's b value	tenacity (cN/tex)
Tair 3035	1.12	0.52	65.6		· ·
				b value	(cN/tex)
Г 73-457863	1.12 1.17	0.52	65.6	b value	(cN/tex)
73-457863	1.12 1.17 1.14	0.52 .51	65.6 65.8	6.9 8.0	(cN/tex) 12.3 12.4
73-457863 548 r 310	1.12 1.17 1.14 1.19	0.52 .51 .54 .52	65.6 65.8 67.2 67.0	6.9 8.0 8.7 8.0	(cN/tex) 12.3 12.4 12.7 12.3
Γ 73-457863 3548 er 310 Γ 72-3	1.12 1.17 1.14 1.19 1.14	0.52 .51 .54 .52 .51	65.6 65.8 67.2 67.0 67.2	b value 6.9 8.0 8.7 8.0 7.7	(cN/tex) 12.3 12.4 12.7 12.3 12.0
T 73-457863 3548 er 310 T 72-3 T 72-56	1.12 1.17 1.14 1.19 1.14 1.09	0.52 .51 .54 .52 .51	65.6 65.8 67.2 67.0 67.2 66.4	b value 6.9 8.0 8.7 8.0 7.7 7.5	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4
T 73-457863 3548 er 310 T 72-3 T 72-56 neville 1114	1.12 1.17 1.14 1.19 1.14 1.09 1.13	0.52 .51 .54 .52 .51 .49	65.6 65.8 67.2 67.0 67.2 66.4 66.8	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7
T 73-457863 3548 (er 310 T 72-3 T 72-56 (oneville 1114 ii 7	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12	0.52 .51 .54 .52 .51 .49 .52	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5
T 73-457863 3548	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11	0.52 .51 .54 .52 .51 .49 .52 .51	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3
T 73-457863 3548 ker 310 T 72-3 T 72-56 oneville 1114 il 7 oneville 1073 ker 3114	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11	0.52 .51 .54 .52 .51 .49 .52 .51 .53	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2 66.7	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4 7.6	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3 12.9
T 73-457863 3548 ker 310 T 72-3 T 72-56 oneville 1114 il 7 oneville 1073 ker 3114 T 73-119	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11 1.18 1.17	0.52 .51 .54 .52 .51 .49 .52 .51 .53 .53	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2 66.7	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4 7.6 7.8	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3 12.9 12.5
T 73-457863 3548 ker 310 T 72-3 T 72-56 oneville 1114 i1 7 oneville 1073 ker 3114 T 73-119 latpine 16	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11 1.18 1.17	0.52 .51 .54 .52 .51 .49 .52 .51 .53 .53	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2 66.7 65.4 69.0	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4 7.6 7.8 8.0	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3 12.9 12.5 11.8
T 73-457863 3548 ker 310 T 72-3 T 72-56 oneville 1114 i1 7 oneville 1073 ker 3114 T 73-119 latpine 16 63-277J	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11 1.18 1.17 1.17	0.52 .51 .54 .52 .51 .49 .52 .51 .53 .53 .53	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2 66.7 65.4 69.0 67.9	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4 7.6 7.8 8.0 8.5	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3 12.9 12.5 11.8 12.3
T 73-457863 3548 ker 310 T 72-3 T 72-56 oneville 1114 i1 7 oneville 1073 ker 3114 T 73-119 latpine 16 3572	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11 1.18 1.17 1.17 1.15 1.16	0.52 .51 .54 .52 .51 .49 .52 .51 .53 .53 .52 .53	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2 66.7 65.4 69.0 67.9 66.5	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4 7.6 7.8 8.0 8.5 8.2	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3 12.9 12.5 11.8 12.3 13.5
T 73-457863 3548 T 72-3 T 72-56 Oneville 1114 Oneville 1073 Exer 3114 T 73-119 Atpine 16 563-277J 3572 Exer 420-6913	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11 1.18 1.17 1.17 1.15 1.16 1.19	0.52 .51 .54 .52 .51 .49 .52 .51 .53 .53 .53 .52 .53	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2 66.7 65.4 69.0 67.9 66.5 66.1	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4 7.6 7.8 8.0 8.5 8.2 8.0	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3 12.9 12.5 11.8 12.3 13.5 12.7
T 73-457863 3548 Ker 310 T 72-3 T 72-56 Oneville 1114 i1 7 oneville 1073 ker 3114 T 73-119 latpine 16 3572 ker 420-6913 ker 420-6911	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11 1.18 1.17 1.17 1.15 1.16 1.19 1.17	0.52 .51 .54 .52 .51 .49 .52 .51 .53 .53 .53 .52 .53 .52	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2 66.7 65.4 69.0 67.9 66.5 66.1	6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4 7.6 7.8 8.0 8.5 8.2	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3 12.9 12.5 11.8 12.3 13.5 12.7 13.0
T 73-457863 3548 T 72-3 T 72-56 Oneville 1114 Oneville 1073 Ser 3114 T 73-119 Atpine 16 63-277J Ser 420-6913 Ser 420-6911 63-277 BR1	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11 1.18 1.17 1.17 1.15 1.16 1.19 1.17	0.52 .51 .54 .52 .51 .49 .52 .51 .53 .53 .53 .52 .53 .52 .54 .54	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2 66.7 65.4 69.0 67.9 66.5 66.1 64.4	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4 7.6 7.8 8.0 8.5 8.2 8.0 8.5 8.6	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3 12.9 12.5 11.8 12.3 13.5 12.7 13.0 12.7
T 73-457863 3548 er 310 T 72-3 T 72-56 neville 1114 1 7 neville 1073 er 3114 T 73-119 atpine 16 63-277J ser 420-6913 er 420-6911 63-277 BR1 lair 3034	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11 1.18 1.17 1.17 1.15 1.16 1.19 1.17 1.18	0.52 .51 .54 .52 .51 .49 .52 .51 .53 .53 .53 .52 .53 .52 .54 .54 .54	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2 66.7 65.4 69.0 67.9 66.5 66.1 64.4 67.4	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4 7.6 7.8 8.0 8.5 8.6 7.9	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3 12.9 12.5 11.8 12.3 13.5 12.7 13.0 12.7 11.9
CNair 3035 T 73-457863 O 3548 O T 72-3 T 72-56 Coneville 1114 O Soneville 1073 O Ker 3114 O A T 73-119 Coneville 16 O A C C C C C C C C C C C C C C C C C C	1.12 1.17 1.14 1.19 1.14 1.09 1.13 1.12 1.11 1.18 1.17 1.17 1.15 1.16 1.19 1.17	0.52 .51 .54 .52 .51 .49 .52 .51 .53 .53 .53 .52 .53 .52 .54 .54	65.6 65.8 67.2 67.0 67.2 66.4 66.8 68.1 67.2 66.7 65.4 69.0 67.9 66.5 66.1 64.4	b value 6.9 8.0 8.7 8.0 7.7 7.5 8.3 8.0 8.4 7.6 7.8 8.0 8.5 8.2 8.0 8.5 8.6	(cN/tex) 12.3 12.4 12.7 12.3 12.0 11.4 12.7 11.5 13.3 12.9 12.5 11.8 12.3 13.5 12.7 13.0 12.7

Table 117.--High-quality test: Yield, boll, and spinning data for College Station, Tex.

75 60 50 65 50 70 65 50 10 40
60 50 50 70 65 50 50 10
50 65 70 65 95 50 10
65 70 65 95 50 10
50 70 65 95 50 10 40
70 65 95 50 10 40
4.65 3.95 4.50 4.10 4.40 4.25
3.95 4.50 4.10 4.40 4.25
.50 .10 .40 .25
.10 .40 .25
.40 1.25
1.25
. 20
1.50
1.30
1.40
1.05
3.90
1.00
arn
enacity
(cN/tex)
1.9
2.9
3.0
1.7
1.9
2.9
0.8
3.0
2.7
3.7
4.1
3.4
3.3
2.6
2.6
2.7
2.7
2.7 2.9 4.0
2.7
t ((

Table 118.--High-quality test: Yield, boll, and spinning data for Belle Mina, Ala.

ariety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
ail 7	725 a	5.24	42.7	10.3	5.80
cNair 3034	619 b	5.74	42.4	10.6	5.15
oker 310	600 bc	5.22	40.6	10.0	5.45
cNair 3035	596 bc	5.27	40.3	9.6	5.50
oker 420-6913	593 bc	4.88	42.9	10.2	5.35
o. 63-277 BR1	592 bc	5.41	38.7	10.5	5.15
oker 420-6911	579 bc	5.25	42.3	10.6	5.45
1tapine 16	579 bc	5.27	40.6	10.1	5.70
T 72-56	543 bcd	5.58	39.5	10.6	5.55
er 3114	542 bcd	5.30	40.6	10.2	5.35
T 73-119	542 bcd	5.75	42.1	9.8	5.40
T 72-3	524 cd	5.40	41.6	11.1	5.25
neville 1114	521 cd	5.06	40.0	10.3	5.65
T 73-457863	520 cd	5.88	39.9	10.5	5.45
3548	489 d	4.59	43.7	10.5	5.50
oneville 1073	485 d	4.57	38.6	10.2	5.15
. 63-277J	481 d	5.38	38.9	12.6	5.15
3608	390 e	5.78	40.1	10.3	5.35
ala 1517-70	368 e	5.43	36.2	10.3	4.90
3572	331 e	4.73	39.3	10.7	5.45
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%		Hunter's	tenacity
	2.5%		\overline{R}_d		
il 7	1.06			Hunter's	tenacity
		50%	R_d	Hunter's b value	tenacity (cN/tex)
ir 3034	1.06	0.47	71.5	Hunter's b value	tenacity (cN/tex)
ir 3034	1.06 1.07	50% 0.47 .48	71.5 69.5	Hunter's b value 9.4 9.5	tenacity (cN/tex) 9.7 10.7
ir 3034 c 310 ir 3035	1.06 1.07 1.09	50% 0.47 .48 .49	71.5 69.5 68.5	Hunter's b value 9.4 9.5 9.4	tenacity (cN/tex) 9.7 10.7 10.9
r 3034 310 r 3035 420-6913	1.06 1.07 1.09 1.08	50% 0.47 .48 .49 .52	71.5 69.5 68.5 70.2	Hunter's b value 9.4 9.5 9.4 9.7	tenacity (cN/tex) 9.7 10.7 10.9 10.8
ir 3034 r 310 ir 3035 r 420-6913 63-277 BR1	1.06 1.07 1.09 1.08 1.10	50% 0.47 .48 .49 .52 .51	71.5 69.5 68.5 70.2 71.5	Hunter's b value 9.4 9.5 9.4 9.7 9.5	9.7 10.7 10.9 10.8 12.0
ir 3034 r 310 ir 3035 r 420-6913 63-277 BR1 r 420-6911	1.06 1.07 1.09 1.08 1.10	50% 0.47 .48 .49 .52 .51 .52	71.5 69.5 68.5 70.2 71.5 69.0	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6	9.7 10.7 10.9 10.8 12.0 11.5
ir 3034	1.06 1.07 1.09 1.08 1.10 1.12 1.13	50% 0.47 .48 .49 .52 .51 .52 .53	71.5 69.5 68.5 70.2 71.5 69.0 68.2	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0	tenacity (cN/tex) 9.7 10.7 10.9 10.8 12.0 11.5 11.5
air 3034 er 310 air 3035 er 420-6913 63-277 BR1 er 420-6911 tapine 16	1.06 1.07 1.09 1.08 1.10 1.12 1.13 1.09 1.06	50% 0.47 .48 .49 .52 .51 .52 .53 .51 .48	71.5 69.5 68.5 70.2 71.5 69.0 68.2 69.3 68.5	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0 8.6 8.6	tenacity (cN/tex) 9.7 10.7 10.9 10.8 12.0 11.5 11.5 10.6 10.6
Nair 3034	1.06 1.07 1.09 1.08 1.10 1.12 1.13 1.09 1.06 1.13	50% 0.47 .48 .49 .52 .51 .52 .53 .51 .48 .52	71.5 69.5 68.5 70.2 71.5 69.0 68.2 69.3 68.5 69.4	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0 8.6	9.7 10.7 10.9 10.8 12.0 11.5 11.5
Nair 3034	1.06 1.07 1.09 1.08 1.10 1.12 1.13 1.09 1.06 1.13 1.07	50% 0.47 .48 .49 .52 .51 .52 .53 .51 .48 .52 .48	71.5 69.5 68.5 70.2 71.5 69.0 68.2 69.3 68.5	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0 8.6 8.6 9.1	10.7 10.7 10.8 12.0 11.5 11.5 10.6 10.6 11.2
Nair 3034	1.06 1.07 1.09 1.08 1.10 1.12 1.13 1.09 1.06 1.13 1.07	50% 0.47 .48 .49 .52 .51 .52 .53 .51 .48 .52 .48 .52	71.5 69.5 68.5 70.2 71.5 69.0 68.2 69.3 68.5 69.4 68.7 68.8	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0 8.6 8.6 9.1 9.3	tenacity (cN/tex) 9.7 10.7 10.9 10.8 12.0 11.5 11.5 10.6 10.6 10.7 11.3
Ail 7	1.06 1.07 1.09 1.08 1.10 1.12 1.13 1.09 1.06 1.13 1.07 1.11	50% 0.47 .48 .49 .52 .51 .52 .53 .51 .48 .52 .48 .52	71.5 69.5 68.5 70.2 71.5 69.0 68.2 69.3 68.5 69.4 68.7 68.8 69.5	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0 8.6 8.6 9.1 9.3 9.4	9.7 10.7 10.9 10.8 12.0 11.5 11.5 10.6 10.6 11.2 10.7 11.3
Nair 3034	1.06 1.07 1.09 1.08 1.10 1.12 1.13 1.09 1.06 1.13 1.07 1.11	50% 0.47 .48 .49 .52 .51 .52 .53 .51 .48 .52 .48 .52 .48 .53 .52 .53	71.5 69.5 68.5 70.2 71.5 69.0 68.2 69.3 68.5 69.4 68.7 68.8 69.5 67.1	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0 8.6 8.6 9.1 9.3 9.4 9.4 9.1	10.7 10.7 10.9 10.8 12.0 11.5 11.5 10.6 10.6 11.2 10.7 11.3 11.9
Nair 3034	1.06 1.07 1.09 1.08 1.10 1.12 1.13 1.09 1.06 1.13 1.07 1.11 1.09 1.13	50% 0.47 .48 .49 .52 .51 .52 .53 .51 .48 .52 .48 .53 .52 .53 .51 .48	71.5 69.5 68.5 70.2 71.5 69.0 68.2 69.3 68.5 69.4 68.7 68.8 69.5 67.1	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0 8.6 8.6 9.1 9.3 9.4 9.4 9.1 9.2	tenacity (cN/tex) 9.7 10.7 10.9 10.8 12.0 11.5 11.5 11.5 11.6 10.6 11.2 10.7 11.3 11.9 11.4 11.0
Nair 3034	1.06 1.07 1.09 1.08 1.10 1.12 1.13 1.09 1.06 1.13 1.07 1.11 1.09 1.13	50% 0.47 .48 .49 .52 .53 .51 .48 .52 .48 .53 .52 .53 .48 .53 .51	71.5 69.5 68.5 70.2 71.5 69.0 68.2 69.3 68.5 69.4 68.7 68.8 69.5 67.1 69.6 68.2	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0 8.6 8.6 9.1 9.3 9.4 9.1 9.2 9.6	10.7 10.7 10.9 10.8 12.0 11.5 11.5 10.6 10.6 11.2 10.7 11.3 11.9 11.4 11.0
Aair 3034	1.06 1.07 1.09 1.08 1.10 1.12 1.13 1.09 1.06 1.13 1.07 1.11 1.09 1.13 1.09	50% 0.47 .48 .49 .52 .51 .52 .53 .51 .48 .52 .48 .53 .52 .53 .51 .52	71.5 69.5 68.5 70.2 71.5 69.0 68.2 69.3 68.5 69.4 68.7 68.8 69.5 67.1 69.6 68.2 68.0	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0 8.6 8.6 9.1 9.3 9.4 9.4 9.1 9.2 9.6 10.0	tenacity (cN/tex) 9.7 10.7 10.9 10.8 12.0 11.5 11.5 11.5 11.6 10.6 11.2 10.7 11.3 11.9 11.4 11.0 11.8 11.4
Tair 3034	1.06 1.07 1.09 1.08 1.10 1.12 1.13 1.09 1.06 1.13 1.07 1.11 1.09 1.13	50% 0.47 .48 .49 .52 .53 .51 .48 .52 .48 .53 .52 .53 .48 .53 .51	71.5 69.5 68.5 70.2 71.5 69.0 68.2 69.3 68.5 69.4 68.7 68.8 69.5 67.1 69.6 68.2	Hunter's b value 9.4 9.5 9.4 9.7 9.5 9.6 9.0 8.6 8.6 9.1 9.3 9.4 9.1 9.2 9.6	10.7 10.7 10.9 10.8 12.0 11.5 11.5 10.6 10.6 11.2 10.7 11.3 11.9 11.4 11.0

Table 119.--High-quality test: Yield, boll, and spinning data for Tifton, Ga.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Ga T 73-119	622 a	5.17	41.6	10.6	5.55
Ga T 73-457863	566 ab	5.17	42.3	10.4	5.50
Ga T 72-3	541 abc	4.88	39.7	11.1	5.30
Coker 310	535 abc	5.32	41.1	10.6	5.55
McNair 3034	534 abc	5.81	42.8	10.3	5.15
Deltapine 16	509 bc	5.78	41.0	10.9	5.35
Stoneville 1114	501 bc	5.57	41.4	11.2	5.45
McNair 3035	488 bc	4.95	43.1	10.0	5.70
Coker 3114	487 bc	4.66	44.2	9.7	5.55
PD 3548	486 bc	4.41	43.7	9.8	5.55
Coker 420-6913	482 bc	5.54	40.4	10.6	5.45
PD 3572	469 bc	4.68	43.8	10.6	5.70
PD 3608	468 bc	5.50	40.1	11.8	5.75
Coker 420-6911	467 bc	5.36	39.9	10.6	5.30
Ga T 72-56	464 bc	5.27	40.8	11.1	5.60
Stoneville 1073	454 c	5.20	40.2	10.2	5.55
Vail 7	441 c	4.82	40.0	10.8	5.70
Mo. 63-277 BR1	339 d	5.05	39.3	11.8	5.30
Mo. 63-277J	324 d	5.40	38.0	11.6	4.85
Acala 1517-70	2 7 7 d	5.09	37.1	12.2	4.95
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's	tenacity
			α	b value	(aN/+ ax)
				D value	(cN/tex)
Ga T 73-119	1.10	0.53	70.5	9.3	11.0
Ga T 73-119 Ga T 73-457863	1.10 1.11	0.53	70.5 70.7		
				9.3	11.0
Ga T 73-457863 Ga T 72-3	1.11	.53	70.7	9.3	11.0 11.7
Ga T 73-457863	1.11 1.09	.53 .52	70.7 71.2	9.3 9.4 9.7	11.0 11.7 11.5
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034	1.11 1.09 1.13	.53 .52 .51	70.7 71.2 72.8	9.3 9.4 9.7 9.9	11.0 11.7 11.5 11.9
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034	1.11 1.09 1.13 1.07	.53 .52 .51 .48	70.7 71.2 72.8 71.2	9.3 9.4 9.7 9.9 10.0	11.0 11.7 11.5 11.9
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114	1.11 1.09 1.13 1.07 1.12	.53 .52 .51 .48 .54	70.7 71.2 72.8 71.2 73.2	9.3 9.4 9.7 9.9 10.0 9.8	11.0 11.7 11.5 11.9 11.0
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035	1.11 1.09 1.13 1.07 1.12 1.11 1.06	.53 .52 .51 .48 .54	70.7 71.2 72.8 71.2 73.2 70.1	9.3 9.4 9.7 9.9 10.0 9.8 9.5	11.0 11.7 11.5 11.9 11.0 12.0 11.7
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035 Coker 3114	1.11 1.09 1.13 1.07 1.12 1.11 1.06 1.10	.53 .52 .51 .48 .54 .52 .50	70.7 71.2 72.8 71.2 73.2 70.1 72.5	9.3 9.4 9.7 9.9 10.0 9.8 9.5 9.8	11.0 11.7 11.5 11.9 11.0 12.0 11.7
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035 Coker 3114 PD 3548	1.11 1.09 1.13 1.07 1.12 1.11 1.06 1.10	.53 .52 .51 .48 .54 .52 .50 .53	70.7 71.2 72.8 71.2 73.2 70.1 72.5 71.3	9.3 9.4 9.7 9.9 10.0 9.8 9.5 9.8	11.0 11.7 11.5 11.9 11.0 12.0 11.7 11.1
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035 Coker 3114 PD 3548 Coker 420-6913	1.11 1.09 1.13 1.07 1.12 1.11 1.06 1.10 1.09	.53 .52 .51 .48 .54 .52 .50 .53	70.7 71.2 72.8 71.2 73.2 70.1 72.5 71.3 70.6	9.3 9.4 9.7 9.9 10.0 9.8 9.5 9.8 9.8	11.0 11.7 11.5 11.9 11.0 12.0 11.7 11.1
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035 Coker 3114 PD 3548 Coker 420-6913 PD 3572	1.11 1.09 1.13 1.07 1.12 1.11 1.06 1.10 1.09 1.14 1.12	.53 .52 .51 .48 .54 .52 .50 .53 .53	70.7 71.2 72.8 71.2 73.2 70.1 72.5 71.3 70.6 70.9 69.3	9.3 9.4 9.7 9.9 10.0 9.8 9.5 9.8 9.8 9.8	11.0 11.7 11.5 11.9 11.0 12.0 11.7 11.1 11.5
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035 Coker 3114 PD 3548 Coker 420-6913 PD 3572 PD 3608	1.11 1.09 1.13 1.07 1.12 1.11 1.06 1.10 1.09 1.14 1.12 1.12	.53 .52 .51 .48 .54 .52 .50 .53 .53 .54	70.7 71.2 72.8 71.2 73.2 70.1 72.5 71.3 70.6 70.9 69.3 70.8	9.3 9.4 9.7 9.9 10.0 9.8 9.5 9.8 9.8 9.8 9.6 10.3	11.0 11.7 11.5 11.9 11.0 12.0 11.7 11.1 11.5 11.6 12.3 12.6
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035 Coker 3114 PD 3548 Coker 420-6913 PD 3572 PD 3608 Coker 420-6911	1.11 1.09 1.13 1.07 1.12 1.11 1.06 1.10 1.09 1.14 1.12 1.12	.53 .52 .51 .48 .54 .52 .50 .53 .53 .54 .53	70.7 71.2 72.8 71.2 73.2 70.1 72.5 71.3 70.6 70.9 69.3 70.8 71.4	9.3 9.4 9.7 9.9 10.0 9.8 9.5 9.8 9.8 9.8 9.8 10.3 10.6	11.0 11.7 11.5 11.9 11.0 12.0 11.7 11.1 11.5 11.6 12.3 12.6 12.0
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035 Coker 3114 PD 3548 Coker 420-6913 PD 3608 Coker 420-6911 Ga T 72-56	1.11 1.09 1.13 1.07 1.12 1.11 1.06 1.10 1.09 1.14 1.12 1.12 1.16 1.08	.53 .52 .51 .48 .54 .52 .50 .53 .53 .54 .53 .55	70.7 71.2 72.8 71.2 73.2 70.1 72.5 71.3 70.6 70.9 69.3 70.8 71.4 72.9	9.3 9.4 9.7 9.9 10.0 9.8 9.5 9.8 9.8 9.8 9.8 9.8	11.0 11.7 11.5 11.9 11.0 12.0 11.7 11.1 11.5 11.6 12.3 12.6 12.0 11.8 10.8
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035 Coker 3114 PD 3548 Coker 420-6913 PD 3572 PD 3608 Coker 420-6911 Ga T 72-56 Stoneville 1073	1.11 1.09 1.13 1.07 1.12 1.11 1.06 1.10 1.09 1.14 1.12 1.12 1.16 1.08	.53 .52 .51 .48 .54 .52 .50 .53 .53 .54 .53 .55 .56	70.7 71.2 72.8 71.2 73.2 70.1 72.5 71.3 70.6 70.9 69.3 70.8 71.4 72.9 68.8	9.3 9.4 9.7 9.9 10.0 9.8 9.5 9.8 9.8 9.8 9.6 10.3 10.6 9.7	11.0 11.7 11.5 11.9 11.0 12.0 11.7 11.1 11.5 11.6 12.3 12.6 12.0 11.8 10.8 11.5
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035 Coker 3114 PD 3548 Coker 420-6913 PD 3572 PD 3608 Coker 420-6911 Ga T 72-56 Stoneville 1073 Vail 7	1.11 1.09 1.13 1.07 1.12 1.11 1.06 1.10 1.09 1.14 1.12 1.12 1.16 1.08 1.08	.53 .52 .51 .48 .54 .52 .50 .53 .53 .54 .53 .55 .56 .51	70.7 71.2 72.8 71.2 73.2 70.1 72.5 71.3 70.6 70.9 69.3 70.8 71.4 72.9 68.8 71.6	9.3 9.4 9.7 9.9 10.0 9.8 9.5 9.8 9.8 9.8 9.6 10.3 10.6 9.7 9.3 9.3 9.9	11.0 11.7 11.5 11.9 11.0 12.0 11.7 11.1 11.5 11.6 12.3 12.6 12.0 11.8 10.8 11.5 10.9
Ga T 73-457863 Ga T 72-3 Coker 310 McNair 3034 Deltapine 16 Stoneville 1114 McNair 3035 Coker 3114 PD 3548 Coker 420-6913 PD 3572 PD 3608 Coker 420-6911 Ga T 72-56 Stoneville 1073 Vail 7 Mo. 63-277 BR1	1.11 1.09 1.13 1.07 1.12 1.11 1.06 1.10 1.09 1.14 1.12 1.12 1.16 1.08	.53 .52 .51 .48 .54 .52 .50 .53 .53 .54 .53 .55 .56	70.7 71.2 72.8 71.2 73.2 70.1 72.5 71.3 70.6 70.9 69.3 70.8 71.4 72.9 68.8	9.3 9.4 9.7 9.9 10.0 9.8 9.5 9.8 9.8 9.8 9.6 10.3 10.6 9.7 9.3 9.3	11.0 11.7 11.5 11.9 11.0 12.0 11.7 11.1 11.5 11.6 12.3 12.6 12.0 11.8 10.8 11.5

Table 120.--High-quality test: Yield, boll, and spinning data for Rocky Mount, N.C.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
McNair 3035	441 a	5.05	40.0	9.4	5.45
Stoneville 1073	435 ab	5.00	38.8	9.4	5.00
Coker 420-6911	429 ab	5.03	38.1	10.2	5.50
Coker 420-6913	412 abc	5.21	37.8	10.0	5.40
Ga T 72-56	410 abc	5.60	39.3	10.0	5.55
Ga T 73-457863	407 abc	5.39	39.9	10.1	5.60
Ga T 72-3	406 abc	5.54	38.8	9.6	5.45
Stoneville 1114	377 bcd	5.18	40.9	9.8	5.55
Coker 3114	369 cd	5.36	41.0	9.5	5.40
PD 3548	368 cd	4.66	41.1	9.8	5.50
Coker 310	362 cd	5.57	39.4	9.8	5.50
Vail 7	359 cd	5.18	39.6	9.5	5.60
Ga T 73-119	356 cd	5.56	38.8	10.4	5.50
Mo. 63-277J	353 cd	6.15	37.1	11.2	4.95
PD 3572	342 d	4.77	42.7	9.7	5.45
PD 3608	339 d	5.84	38.0	10.5	5.45
Mi). 63-277 BR1	339 d	5.78	37.8	10.2	5.10
Deltapine 16	334 d	5.59	38.4	9.9	5.85
Acala 1517-70	324 d	5.61	34.9	11.0	4.80
'McNair 3034	318 d	5.80	39.9	10.4	5.50
MCNail 3034	510 u	J.00		10.4	
		inches)		imeter	Yarn
	Span length (inches) 50%		Hunter's	tenacity
			$\frac{\text{Color}}{R_d}$		
McNair 3035				Hunter's	tenacity
	.97	50%	R_d	Hunter's b value	tenacity (cN/tex)
Stoneville 1073	.97	0.46	R_d	Hunter's b value	tenacity (cN/tex)
Stoneville 1073 Coker 420-6911	.97 1.02 1.03	50% 0.46 .50	72.1 69.7	Hunter's b value 9.0 8.7	tenacity (cN/tex) 11.4 12.9
Stoneville 1073 Coker 420-6911 Coker 420-6913	.97 1.02 1.03 1.06	50% 0.46 .50 .48 .52	72.1 69.7 70.3 71.6	Hunter's b value 9.0 8.7 8.8	tenacity (cN/tex) 11.4 12.9 12.8 12.2
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56	.97 1.02 1.03 1.06 .96	50% 0.46 .50 .48 .52 .46	72.1 69.7 70.3	Hunter's b value 9.0 8.7 8.8 8.9	tenacity (cN/tex) 11.4 12.9 12.8
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863	.97 1.02 1.03 1.06 .96 1.06	50% 0.46 .50 .48 .52 .46 .50	72.1 69.7 70.3 71.6 71.2 69.9	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Ga T 72-3	.97 1.02 1.03 1.06 .96 1.06 1.02	50% 0.46 .50 .48 .52 .46 .50 .50	72.1 69.7 70.3 71.6 71.2 69.9 71.2	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Stoneville 1114	.97 1.02 1.03 1.06 .96 1.06 1.02 1.03	50% 0.46 .50 .48 .52 .46 .50 .50 .50	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.2	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Stoneville 1114 Coker 3114	.97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .50	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.2 70.5	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.9 9.4	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Stoneville 1114 Coker 3114 PD 3548	.97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .50 .50	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.2 70.5 65.9	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8 9.4 8.7	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5 12.1
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Stoneville 1114 Coker 3114 PD 3548 Coker 310	.97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05 .99	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .50 .50 .49	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.2 70.5 65.9 69.9	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8 9.4 8.7 9.1	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5 12.1 12.2
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Stoneville 1114 Coker 3114 PD 3548 Vail 7	.97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05 .99 1.04	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .50 .49 .45	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.2 70.5 65.9 69.9 73.0	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8 9.4 8.7 9.1 8.8	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5 12.1 12.2 11.5
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Stoneville 1114 Coker 3114 PD 3548 Coker 310 Vail 7 Ga T 73-119	.97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05 .99 1.04 .99	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .50 .51 .50 .49 .45 .51	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.2 70.5 65.9 69.9 73.0 71.0	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8 9.4 8.7 9.1 8.8 8.9	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5 12.1 12.2 11.5 11.6
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Stoneville 1114 Coker 3114 PD 3548 Coker 310 Vail 7 Ga T 73-119 Mo. 63-277J	2.5% .97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05 .99 1.04 .99 1.05 1.06	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .50 .51 .50 .49 .45 .51	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.2 70.5 65.9 69.9 73.0 71.0 69.9	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8 9.4 8.7 9.1 8.8 8.9 9.7	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5 12.1 12.2 11.5 11.6 12.6
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Stoneville 1114 Coker 3114 PD 3548 Coker 310 Vail 7 Ga T 73-119 Mo. 63-277J PD 3572	.97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05 .99 1.04 .99 1.05 1.06 1.00	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .50 .51 .50 .49 .45 .51 .50 .48	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.2 70.5 65.9 69.9 73.0 71.0 69.9 71.6	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8 9.4 8.7 9.1 8.8 8.9 9.7 9.3	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5 12.1 12.2 11.5 11.6 12.6 12.1
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Stoneville 1114 Coker 3114 PD 3548 Coker 310 Vail 7 Ga T 73-119 Mo. 63-277J PD 3572 PD 3608	.97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05 .99 1.04 .99 1.05 1.06	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .51 .50 .49 .45 .51 .50 .48 .51	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.2 70.5 65.9 69.9 73.0 71.0 69.9 71.6 70.1	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8 9.4 8.7 9.1 8.8 8.9 9.7 9.3 9.0	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5 12.1 12.2 11.5 11.6 12.6 12.1 12.9
Stoneville 1073 Coker 420-6911 Coker 420-6913 Ga T 73-56 Ga T 73-457863 Stoneville 1114 Coker 3114 PD 3548 Vail 7 Ga T 73-119 PD 3572 PD 3608 Mo. 63-277 BR1	.97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05 .99 1.04 .99 1.05 1.06 1.00 1.06 1.06	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .50 .51 .50 .49 .45 .51 .50 .48 .51 .50	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.5 65.9 69.9 73.0 71.0 69.9 71.6 70.1	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8 9.4 8.7 9.1 8.8 8.9 9.7 9.1 9.3	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5 12.1 12.2 11.5 11.6 12.6 12.1 12.9 12.7
Stoneville 1073 Coker 420-6911 Ga T 73-56 Ga T 73-457863 Ga T 72-3 Stoneville 1114 Coker 3114 PD 3548 Coker 310 Vail 7 Ga T 73-119 Mo. 63-277J PD 3572 PD 3608 Mo. 63-277 BR1 Deltapine 16	.97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05 .99 1.04 .99 1.05 1.06 1.00 1.06 1.00	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .51 .50 .49 .45 .51 .50 .48 .51 .52 .49	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.2 70.5 65.9 69.9 73.0 71.0 69.9 71.6 70.1 69.9 72.6	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8 9.4 8.7 9.1 8.8 8.9 9.7 9.1 8.8 8.9 9.7 9.3 9.0 9.5 8.8	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5 12.1 12.2 11.5 11.6 12.6 12.1 12.9 12.7 11.3
Stoneville 1073 Coker 420-6911 Ga T 73-56 Ga T 73-457863 Ga T 72-3 Stoneville 1114 Coker 3114 PD 3548 Coker 310 Vail 7 Ga T 73-119 Mo. 63-277J PD 3608 Mo. 63-277 BR1	2.5% .97 1.02 1.03 1.06 .96 1.06 1.02 1.03 1.05 .99 1.04 .99 1.05 1.06 1.06 1.06 1.07	50% 0.46 .50 .48 .52 .46 .50 .50 .50 .50 .51 .50 .49 .45 .51 .50 .48 .51 .50	72.1 69.7 70.3 71.6 71.2 69.9 71.2 70.5 65.9 69.9 73.0 71.0 69.9 71.6 70.1	Hunter's b value 9.0 8.7 8.8 8.9 9.0 9.3 8.9 8.8 9.4 8.7 9.1 8.8 8.9 9.7 9.1 9.3	tenacity (cN/tex) 11.4 12.9 12.8 12.2 11.4 12.1 11.8 12.8 12.5 12.1 12.2 11.5 11.6 12.6 12.1 12.9 12.7

Table 121.--High-quality test: Yield, boll, and spinning data for Rohwer, Ark.

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Coker 3114	366 a	4.20	40.9		4.90
Ga T 72-3	343 ab	4.20	37.8		4.90
Ga T 72-56	337 abc	4.11	38.3		5.10
Ga T 73-457863	326 abcd	5.33	38.8		4.90
Stoneville 1114	316 abcd	4.70	39.7		5.60
/ail 7	306 abcd	4.48	39.1		5.25
cNair 3035	300 bcd	4.03	37.9		4.65
coneville 1073	294 bcd	4.63	39.0	*** ***	4.90
Т 73-119	293 bcd	4.66	38.2		5.00
ker 420-6913	291 bcd	4.25	37.4		4.85
oker 310	387 bcd	4.62	37.3		4.60
3608	286 bcd	4.83	40.4		5.00
3572	284 bcd	4.61	43.3	open deep open	5.20
oker 420-6911	283 bcd	4.75	36.7	open quite down	4.90
63-277J	275 cd	5.22	38.2		4.55
Nair 3034	272 cd	4.89	39.4		4.80
D 3548	264 de	4.07	41.2		4.85
eltapine 16	260 de	4.34	37.5		4.90
o. 63-277 BR1	211 e	4.25	38.2		4.55
cala 1517-70	208 e	4.10	36.0		4.75
	Span length (inches)	Color	imeter	Yarn
				TIMOCOT	1 (4.1.11
	2.5%	50%		Hunter's	tenacity
			$\frac{R_d}{R_d}$		
oker 3114	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
	1.17	0.53	70.7	Hunter's b value	tenacity (cN/tex)
T 72-3	1.17 1.16	0.53 .55	70.7 69.2	Hunter's b value 7.9 7.6	tenacity (cN/tex) 12.7 12.1
T 72-3 T 72-56	1.17 1.16 1.11	50% 0.53 .55 .53	70.7 69.2 69.5	Hunter's b value 7.9 7.6 7.1	tenacity (cN/tex) 12.7 12.1 12.0
T 72-3 T 72-56 T 73-457863	1.17 1.16 1.11 1.17	50% 0.53 .55 .53	70.7 69.2 69.5 68.1	Hunter's b value 7.9 7.6 7.1 7.6	tenacity (cN/tex) 12.7 12.1 12.0 12.2
T 72-3 T 72-56 T 73-457863	1.17 1.16 1.11 1.17 1.13	50% 0.53 .55 .53 .53	70.7 69.2 69.5 68.1 70.8	Hunter's b value 7.9 7.6 7.1 7.6 7.9	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2
T 72-3	1.17 1.16 1.11 1.17 1.13 1.07	50% 0.53 .55 .53 .53 .56 .51	70.7 69.2 69.5 68.1 70.8 70.5	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7
a T 72-3 a T 72-56 a T 73-457863 coneville 1114 ail 7 conair 3035	1.17 1.16 1.11 1.17 1.13 1.07 1.13	50% 0.53 .55 .53 .53 .56 .51 .53	70.7 69.2 69.5 68.1 70.8 70.5 65.9	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5
T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13	50% 0.53 .55 .53 .56 .51 .53 .53	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3
a T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11	50% 0.53 .55 .53 .53 .56 .51 .53 .53 .53	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3
a T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11 1.15 1.18	50% 0.53 .55 .53 .56 .51 .53 .53 .55 .55	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4 71.8	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4 8.2	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3 12.9
a T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11 1.15 1.18	50% 0.53 .55 .53 .53 .56 .51 .53 .53 .55 .54	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4 71.8 69.4	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4 8.2 7.3	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3 12.9 12.1
a T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11 1.15 1.18 1.18	50% 0.53 .55 .53 .56 .51 .53 .53 .55 .54 .57	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4 71.8 69.4 69.3	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4 8.2 7.3 8.1	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3 12.9 12.1 14.3
a T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11 1.15 1.18 1.18 1.19 1.12	50% 0.53 .55 .53 .56 .51 .53 .53 .55 .54 .57 .53	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4 71.8 69.4 69.3 68.8	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4 8.2 7.3 8.1 7.6	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3 12.9 12.1 14.3 12.9
a T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11 1.15 1.18 1.18 1.19 1.12 1.20	50% 0.53 .55 .53 .53 .56 .51 .53 .53 .54 .55 .54	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4 71.8 69.4 69.3 68.8 69.5	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4 8.2 7.3 8.1 7.6 7.9	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3 12.9 12.1 14.3 12.9 13.1
a T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11 1.15 1.18 1.18 1.18 1.19 1.12 1.20 1.15	50% 0.53 .55 .53 .56 .51 .53 .53 .54 .57 .53 .54 .57	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4 71.8 69.4 69.3 68.8 69.5 70.2	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4 8.2 7.3 8.1 7.6 7.9 8.2	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3 12.9 13.1 14.3 12.9 13.1
a T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11 1.15 1.18 1.18 1.19 1.12 1.20 1.15 1.10	50% 0.53 .55 .53 .53 .56 .51 .53 .53 .51 .55 .54 .57 .53 .54 .57 .53 .54 .56 .50	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4 71.8 69.4 69.3 68.8 69.5 70.2 70.3	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4 8.2 7.3 8.1 7.6 7.9 8.2 7.7	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3 12.9 12.1 14.3 12.9 13.1 12.7 11.5
a T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11 1.15 1.18 1.18 1.19 1.12 1.20 1.15 1.10	50% 0.53 .55 .53 .56 .51 .53 .53 .51 .55 .54 .57 .53 .54 .57 .53 .54 .56 .50 .54	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4 71.8 69.4 69.3 68.8 69.5 70.2 70.3 66.3	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4 8.2 7.3 8.1 7.6 7.9 8.2 7.7	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3 12.3 12.9 13.1 14.3 12.9 13.1 12.7 11.5 13.1
a T 72-3	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11 1.15 1.18 1.18 1.18 1.19 1.12 1.20 1.15 1.10 1.11	50% 0.53 .55 .53 .53 .56 .51 .53 .53 .51 .55 .54 .57 .53 .54 .57 .53 .54 .57	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4 71.8 69.4 69.3 68.8 69.5 70.2 70.3 66.3 72.2	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4 8.2 7.3 8.1 7.6 7.9 8.2 7.7 7.4 7.5	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3 12.9 12.1 14.3 12.9 13.1 12.7 11.5 13.1 11.5
Stoneville 1114 Vail 7 McNair 3035 Stoneville 1073 Ga T 73-119 Coker 420-6913 PD 3608 PD 3572 Coker 420-6911 Mo. 63-277J	1.17 1.16 1.11 1.17 1.13 1.07 1.13 1.11 1.15 1.18 1.18 1.19 1.12 1.20 1.15 1.10 1.11	50% 0.53 .55 .53 .56 .51 .53 .53 .51 .55 .54 .57 .53 .54 .57 .53 .54 .56 .50 .54	70.7 69.2 69.5 68.1 70.8 70.5 65.9 68.5 71.4 71.8 69.4 69.3 68.8 69.5 70.2 70.3 66.3	Hunter's b value 7.9 7.6 7.1 7.6 7.9 8.2 6.4 7.3 8.4 8.2 7.3 8.1 7.6 7.9 8.2 7.7	tenacity (cN/tex) 12.7 12.1 12.0 12.2 13.2 10.7 12.5 12.3 12.3 12.3 12.9 12.1 14.3 12.9 13.1 12.7 11.5 13.1

PIMA REGIONAL COTTON VARIETY TEST

Table 122.--Pima test: Yield, boll, and spinning data by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	980 a	3.39 b	41.3 a	11.6 d	4.66 a
P-34	958 ab	3.15 c	39.9 b	12.4 a	4.64 a
P-37	911 abc	3.18 c	37.9 de	11.4 e	4.64 a
P-40	879 abcd	2.99 e	36.2 f	11.8 bc	4.40 c
Pima S-5	854 abcd	3.48 a	38.6 c	11.9 b	4.41 c
P-32	815 bcd	3.07 d	38.3 c	10.1 f	4.46 bc
E-9	809 bcd	3.37 b	38.5 c	11.6 d	4.48 b
E-4	787 cd	2.83 f	34.1 g	12.6 a	4.45 bc
E-8	771 cd	3.35 b	38.1 d	11.7 cd	4.45 bc
E-7	745 d	3.08 d	37.8 e	11.3 e	4.61 a
	Span length (imeter	Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
P-39	1.40 b	0.68 abc	63.8 de	11.7 a	17.3 f
P-34	1.38 cd	.68 ab	63.3 ef	11.8 a	18.3 b
P-37	1.37 d	.66 de	63.9 de	11.4 bc	18.3 b
P-40	1.40 b	.67 bcde	64.8 c	11.0 d	16.9 g
	1.40 b 1.40 b	.67 bcde .68 abc	64.8 c 66.5 b	11.0 d 11.3 cd	16.9 g 17.5 ef
Pima S-5					
Pima S-5 P-32	1.40 b	.68 abc	66.5 b	11.3 cd	17.5 ef
Pima S-5	1.40 b 1.31 f	.68 abc .66 de	66.5 b 67.6 a	11.3 cd 10.8 e	17.5 ef 18.7 a
P-40	1.40 b 1.31 f 1.39 bc	.68 abc .66 de .66 cde	66.5 b 67.6 a 64.4 cd	11.3 cd 10.8 e 11.3 cd	17.5 ef 18.7 a 17.8 cd

Table 123.--Pima test: Seed data by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	21.6 f	3.52 bc	1.06 d	2.9 bc	12.2 d
P-34	22.7 c	3.53 bc	1.06 d	1.6 e	13.7 a
P-37	22.2 d	3.38 f	1.17 c	2.0 de	12.7 bc
P-40	23.1 b	3.44 de	1.32 b	3.1 b	11.2 e
Pima S-5	23.3 b	3.58 ab	1.10 d	2.2 d	12.7 bc
P-32	24.1 a	3.42 ef	1.28 b	2.3 d	13.0 b
E-9	22.5 cd	3.49 cd	1.08 d	2.6 bcd	12.0 d
E-4	21.2 f	3.16 g	1.66 a	4.3 a	9.4 f
E-8	22.6 cd	3.51 c	1.18 c	2.5 cd	12.5 c
E-7	21.9 e	3.61 a	1.28 b	2.6 bcd	12.1 d
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	111.7 cd	121.6 cd	1.050 bc	4.8 ab	11.7 cd
P-34	122.6 a	129.4 a	1.035 c	4.2 a	12.7 a
P-37	110.4 d	120.7 d	1.064 ab	4.0 bc	11.7 cd
P-40	111.7 cd	121.6 cd	1.049 bc	3.5 cd	11.7 cd
Pima S-5	117.5 b	125.8 ь	1.031 c	5.0 a	12.1 b
P-32	97.7 f	111.3 f	1.051 bc	3.1 cd	10.3 e
E-9	112.4 cd	122.1 cd	1.050 bc	3.2 cd	11.8 c
E-4	121.6 a	128.7 a	1.008 d	5.8 a	12.5 a
E-8	114.3 bc	123.5 b	1.041 c	3.1 cd	11.9 bc
E-7	106.4 e	117.8 e	1.074 a	2.6 d	11.4 d

Table 124.--Pima test: Yield, boll, and spinning data by test location

Location	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
Fabens, TX	1268 a	3.37 b	39.3 c	12.1 bc	4.86 a
El Paso, TX	1077 b	3.22 c	40.3 a	11.8 de	4.61 c
Marana (Station), AZ	1066 b	3.22 c	38.0 f	11.3 f	4.42 g
Wenden, AZ	969 c	3.07 d	39.6 bc	10.8 g	4.46 fg
Phoenix, AZ	886 d	2.98 e	34.5 i	12.2 b	4.42 g
Marana (Clark), AZ.	855 d	3.45 a	36.3 g	12.0 cd	4.49 ef
Safford (Curtis), AZ	852 d	3.22 c	39.0 d	11.8 e	4.53 de
Safford (Station), AZ	847 d	3.39 ab	38.4 e	11.8 de	4.70 b
Salome, AZ	379 e	2.69 f	39.7 b	10.3 h	4.58 cd
Coolidge, AZ	370 e	3.27 c	35.7 h	12.4 a	4.12 h
	Span length (i	inches)		imeter	Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
Fabens, TX	1.39 cd	0.68 bc	58.5 e	9.8 e	17.0 3
Fabens, TX El Paso, TX	1.39 cd 1.37 e	0.68 bc .65 d	58.5 e 59.9 d	9.8 e 10.1 d	17.0 3 16.9 e
*					
El Paso, TX	1.37 e	.65 d	59.9 d	10.1 d	16.9 e
El Paso, TX Marana (Station), AZ	1.37 e 1.40 bc	.65 d .68 ab	59.9 d 65.0 c	10.1 d 11.2 c	16.9 e 18.1 bc
El Paso, TX Marana (Station), AZ Wenden, AZ	1.37 e 1.40 bc 1.34 f	.65 d .68 ab .65 d	59.9 d 65.0 c 68.3 a	10.1 d 11.2 c 11.6 ab	16.9 e 18.1 bc 17.9 cd
El Paso, TX Marana (Station), AZ Wenden, AZ Phoenix, AZ	1.37 e 1.40 bc 1.34 f 1.41 b	.65 d .68 ab .65 d .69 a	59.9 d 65.0 c 68.3 a 65.9 b	10.1 d 11.2 c 11.6 ab 11.5 b	16.9 e 18.1 bc 17.9 cd 18.2 b
El Paso, TX Marana (Station), AZ Wenden, AZ Phoenix, AZ Marana (Clark), AZ	1.37 e 1.40 bc 1.34 f 1.41 b 1.41 b	.65 d .68 ab .65 d .69 a .69 ab	59.9 d 65.0 c 68.3 a 65.9 b 65.0 c	10.1 d 11.2 c 11.6 ab 11.5 b	16.9 e 18.1 bc 17.9 cd 18.2 b 18.2 b
El Paso, TX Marana (Station), AZ Wenden, AZ Phoenix, AZ Marana (Clark), AZ Safford (Curtis), AZ	1.37 e 1.40 bc 1.34 f 1.41 b 1.41 b 1.38 de	.65 d .68 ab .65 d .69 a .69 ab	59.9 d 65.0 c 68.3 a 65.9 b 65.0 c 65.9 b	10.1 d 11.2 c 11.6 ab 11.5 b 11.5 b	16.9 e 18.1 bc 17.9 cd 18.2 b 18.2 b 17.7 d

Table 125.--Pima test: Seed data by test location

Location	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
Fabens, TX El Paso, TX Marana (Station), AZ Wenden, AZ Phoenix, AZ Marana (Clark), AZ Safford (Curtis), AZ Safford (Station), AZ Salome, AZ Coolidge, AZ	24.6 a 23.7 b 23.5 bc 23.8 b 21.2 f 22.5 d 20.8 g 23.3 c 20.2 h 21.7 e	3.15 f 3.42 d 3.22 e 3.20 ef 3.93 a 3.66 b 3.64 bc 3.40 d 3.60 c 3.41 d	1.28 c 1.21 d 1.25 cd 1.33 b 1.04 f 1.23 d 1.13 e 1.28 c 1.04 f 1.38 a	2.9 b 3.3 a 2.7 b 1.7 cd 2.8 b 2.9 ab 1.9 c 3.2 ab 2.8 b 1.1 d	12.8 a 12.6 b 12.1 de 12.4 bc 11.3 g 11.2 g 12.5 b 12.2 cd 11.9 ef 11.7 f
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
Fabens, TX El Paso, TX Marana (Station), AZ Wenden, AZ Phoenix, AZ Marana (Clark), AZ . Safford (Curtis), AZ Safford (Station), AZ Salome, AZ Coolidge, AZ	114.3 c 111.6 d 105.2 e 105.2 e 120.3 a 115.5 c 115.9 bc 119.3 ab 95.7 f 122.9 a	123.5 c 121.5 d 116.9 e 116.9 e 127.8 a 124.3 c 124.6 bc 127.1 ab 109.7 f 129.7 a	1.053 b 1.038 bc 1.084 a 1.051 bc 1.033 bcd 1.049 bc 1.031 cd 1.029 cd 1.073 a 1.016 d	2.6 e 2.9 e 3.1 de 2.7 e 4.1 d 4.0 e 5.3 c 2.6 e 8.5 a 7.1 b	12.0 c 11.7 d 11.4 e 11.0 e 12.4 ab 12.1 bc 11.9 cd 12.3 abc 10.3 f 12.5 a

Table 126.--Pima test: Combined yield, boll, and spinning data for Phoenix, Marana (Station and Clark farm), Coolidge, Salome, and Wenden, Ariz., by cotton variety

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	863 a	3.01	39.2	12.1	4.51
P-39	861 a	3.28	40.6	11.4	4.56
P-37	844 a	3.15	37.1	11.3	4.50
P-40	784 ab	2.96	35.5	11.6	4.26
Pima S-5	781 abc	3.47	37.9	11.8	4.32
P-32	748 abc	2.97	37.5	10.1	4.36
E-9	704 abc	3.28	37.9	11.4	4.40
E-8	672 bc	3.27	37.2	11.4	4.37
E-7:	624 bc	2.98	36.9	11.3	4.50
E-4	612 c	2.76	33.0	12.7	4.35
	Span length (inches)		imeter	Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
P-34	1.39	0.69	64.5	12.0	18.6
P-39	1.41	.68	64.6	12.0	17.4
P-37	1.37	.65	64.9	11.6	18.4
P-40	1.39	.67	66.3	11.4	17.0
Pima S-5	1.39	.68	67.4	11.5	17.5
P-32	1.31	.66	68.4	11.0	18.9
E-9	1.39	.66	65.0	11.6	18.0
E-8	1.41	.67	65.3	11.7	17.8
E-7	1.35	.66	64.6	12.0	18.2

Table 127.--Pima test: Combined seed data for Phoenix, Marana (Station and Clark farm), Coolidge, Salome, and Wenden, Ariz., by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-34	22.4	3.56	1.08	1.1	13.4
P-39	21.2	3.55	1.05	2.4	11.5
P-37	21.8	3.42	1.17	1.7	12.4
P-40	22.7	3.49	1.21	3.0	10.8
Pima S-5	23.0	3.62	1.10	1.8	12.5
P-32	23.9	3.46	1.30	1.5	12.7
E-9	22.1	3.49	1.06	2.3	11.6
E-8	22.2	3.54	1.17	2.0	12.3
E-7	21.4	3.66	1.29	2.4	11.7
E-4	20.7	3.26	1.60	5.1	8.4
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-34	118.4	126.3	1.049	6.0	12.4
P-39	109.6	120.0	1.050	5.8	22.5
P-37	108.8	119.5	1.072	4.8	11.6
P-40	111.2	121.2	1.046	4.3	11.7
Pima S-5	115.6	124.3	1.036	6.0	12.0
P-32	97.2	110.8	1.060	3.8	10.3
E-9	108.7	119.4	1.056	4.4	11.5
E-8	110.7	120.9	1.050	3.8	11.6
E-7	104.4	116.3	1.084	2.8	11.3
					12.4

Table 128.--Pima test: Combined yield, boll, and spinning data for Safford (Station and Curtis farm), Ariz.; El Paso and Fabens, Tex., by cotton variety

Variety	Lint yield (1b/acre).	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1160 a	3.55	42.4	12.0	4.80
P-34	1100 ab	3.34	40.9	13.0	4.82
E-4	1049 abc	2.95	35.8	12.4	4.61
P-40	1022 abc	3.04	37.2	12.1	4.60
P-37	1011 bc	3.22	39.2	11.7	4.86
E-8	994 bc	3.48	39.3	12.0	4.56
E-9	968 bc	3.50	39.5	12.0	4.60
Pima S-5	963 bc	3.50	39.7	12.0	4.55
E-7	928 c	3.22	39.3	11.3	4.77
P-32	915 c	3.21	39.5	10.1	4.60
	Span length (i	nches)		imeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
P-39	1.40	0.68	62.7	11.2	17.2
P-34	1.36	. 67	61.5	11.6	18.0
E-4	1.43	.70	62.9	8.5	16.9
P-40	1.41	.68	62.4	10.5	16.8
P-37	1.37	.66	62.3	11.0	18.0
E-8	1.39	. 67	62.8	11.4	17.4
E-9	1.40	.66	63.6	10.8	17.6
Pima S-5	1.41	.69	65.2	10.9	17.4
E-7	1.33	. 65	59.9	11.2	17.7
P-32	1.30	.66	66.3	10.5	18.4

Table 129.--Pima test: Combined seed data for Safford (Station and Curtis farm),
Ariz.; El Paso and Fabens, Tex., by cotton variety

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	22.1	3.48	1.07	3.4	12.8
P-34	23.1	3.48	1.03	2.0	14.0
E-4	22.1	3.02	1.76	3.6	10.5
P-40	23.8	3.38	1.33	3.2	11.6
P-37	22.9	3.32	1.18	2.3	13.0
E-8	23.1	3.48	1.19	3.0	12.7
E-9	23.1	3.49	1.11	3.0	12.3
Pima S-5	23.8	3.51	1.09	2.6	12.9
E-7	22.6	3.53	1.27	2.9	12.5
P-32	24.5	3.35	1.25	3.1	13.2
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	105.1	123.2	1.051	3.7	12.0
P-34	102.2	132.5	1.022	4.4	13.0
E-4	100.9	127.5	1.009	4.2	12.6
P-40	105.2	121.9	1.052	2.8	11.8
P-37	105.6	121.9	1.056	3.2	11.8
E-8		126.2	1.033	2.5	12.2
E-9		124.8	1.044	2.0	12.1
Pima S-5	102.7	127.2	1.027	4.1	12.3
E-7	106.4	119.2	1.064	2.4	11.5
	104.3	111.8	1.043	2.5	10.2

Table 130.--Pima test: Yield, boll and spinning data for Fabens, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1474 a	3.67	42.2	12.6	4.85
P-34	1368 ab	3.42	41.1	13.2	4.85
P-37	1340 abc	2.97	39.3	11.7	5.00
E-8	1259 bc	3.49	39.3	12.2	4.60
E-4	1248 bc	3.24	36.5	12.5	4.85
E-9	1239 bc	3.49	39.9	12.3	4.80
5-7	1194 с	3.45	38.8	11.6	5.00
'ima S-5	1192 c	3.55	39.7	12.1	4.95
9-40	1190 с	2.97	37.4	12.3	5.00
9-32	1171 c	3.50	39.3	10.4	4.75
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	R_{d}	Hunter's b value	tenacity (cN/tex)
2-39	1.41	0.67	59.0	10.4	16.9
9-34	1.35	.66	57.8	11.0	17.5
-37	1.40	.67·	59.0	10.2	17.6
-8	1.40	.69	58.5	10.7	17.2
-4	1.43	.70	54.7	7.3	16.2
-9	1.39	.67	60.5	9.7	17.3
-7	1.34	.66	56.5	9.7	17.1
ima S-5	1.44	.71	61.6	10.4	16.3
	1.40	.69	55.8	9.7	16.1
-40	1.40	• 0 2	33.0	2 • 1	10.1

Table 131.--Pima test: Seed data for Fabens, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	23.9	3.18	1.17	2.4	12.7
P-34	24.4	3.26	1.06	2.5	14.5
P-37	24.0	2.98	1.18	1.9	13.7
E-8	24.7	3.20	1.21	3.5	13.0
E-4	24.1	2.76	1.93	3.7	11.2
E-9	24.6	3.23	1.15	2.6	12.7
E-7	24.0	3.23	1.30	2.9	12.2
Pima S-5	25.1	3.38	1.16	2.5	13.0
P-40	25.1	3.17	1.37	2.1	12.0
P-32	16.6	3.12	1.32	3.6	13.2
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	116.3	124.9	1.063	3.3	12.3
P-34	127.2	132.7	1.028	3.6	13.2
P-37	112.3	122.1	1.072	2.8	12.0
E-8	113.6	123.1	1.042	2.3	11.9
E-4	122.8	129.6	1.010	2.9	12.4
E-9	112.2	122.1	1.064	2.0	12.0
E-7	110.1	120.5	1.077	1.4	11.9
Pima S-5	120.4	127.9	1.047	3.5	12.6
P-40	107.3	118.2	1.067	2.1	11.4
P-32	101.2	114.0	1.057	2.4	10.7

Table 132.--Pima test: Yield, boll, and spinning data for Marana, Ariz. (Station)

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1274 a	3.43	41.3	11.2	4.60
P-34	1242 a	3.18	39.9	12.0	4.50
Pima S-5	1188 ab	3,54	39.1	11.4	4.30
P-37	1188 ab	3.18	37.6	11.0	4.50
P-40	1187 ab	2.96	36.7	11.1	4.25
E-9	973 bc	3.44	39.7	11.4	4.40
E-8	954 c	3.50	38.0	11.7	4.40
P-32	940 c	3.02	38.3	9.8	4.40
E-4	879 c	2.92	33.1	12.8	4.30
E-7	834 c	3.05	37.9	11.0	4.60
	Span length (i	inches)	Color	imeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
P-39	1.42	0.70	61.9	12.2	17.6
P-34	1.37	.69	63.4	11.7	18.4
Pima S-5	1.40	.70	66.1	11.4	17.6
P-37	1.38	.67	63.1	11.4	18.6
P-40	1.40	.69	66.3	10.9	17.2
E-9	1.41	.68	65.0	11.1	18.4
E-8	1.44	.71	63.5	11.7	17.9
P-32	1.32	.65	67.2	10.6	19.1
E-4	1.49	.73	69.7	9.5	17.9
E-7	1.36	.66	64.2	11.8	18.4

Table 133.--Pima test: Seed data for Marana, Ariz. (Station)

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	22.4	3.27	1.04	3.3	12.0
P-34	23.6	3.30	1.06	1.0	13.5
Pima S-5	23.9	3.31	1.13	2.2	12.5
P-37	23.2	3.13	1.24	2.2	12.5
P-40		3.18	1.31	2.6	11.5
E-9	23.4	3.29	1.05	3.3	12.5
Е-8		3.26	1.29	2.4	13.0
P-32		3.13	1.43	1.5	13.0
E-4		2.95	1.79	5.7	8.0
E-7		3.43	1.19	3.1	12.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	104.0	116.1	1.088	4.8	11.0
P-34		116.9	1.165	6.3	12.1
Pima S-5		116.5	1.087	3.8	11.4
P-37		116.4	1.070	2.8	11.2
P-40		118.7	1.064	1.8	11.5
E-9		120.4	1.050	2.5	11.5
E-8		121.2	1.042	2.8	11.6
P-32		103.4	1.126	1.5	9.9
E-4		127.3	1.041	2.8	12.4
H-4		T(1) # 0	- V - V - V		

Table 134.--Pima test: Yield, boll, and spinning data for El Paso, Tex.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	1219 a	3.28	41.6	13.1	4.75
P-39	1152 ab	3.38	43.5	11.7	4.75
E-4	1120 ab	2.82	36.7	12.7	4.80
E-8	1108 abc	3.55	40.2	12.3	4.60
E-9	1099 abc	3.50	40.5	11.5	4.60
E-7	1078 bc	3.11	40.1	11.1	4.65
P-40	1042 bcd	3.07	38.1	12.0	4.50
Pima S-5	1026 bcd	3.50	40.5	12.5	4.25
P-37	984 cd	3.02	40.8	11.4	4.65
P-32	945 d	3.05	40.7	9.9	4.55
	Span length (inches)	Colorimeter		Yarn
	2.5%	50%	$\frac{R}{d}$	Hunter's b value	tenacity (cN/tex)
P-34	1.36	0.66	60.8	11.0	17.5
P-39	1.38	.67	60.1	10.5	16.6
E-4	1.42	.66	54.9	7.6	16.0
E-8	1.39	.67	59.2	10.8	17.1
E-9	1.41	.67	61.4	10.6	16.9
E-7	1.31	.63	56.3	10.2	17.3
P-40	1.40	.65	58.9	9.7	16.0
Pima S-5	1.40	.66	64.3	10.4	17.5
P-37	1.34	.63	60.1	10.5	17.3
P-32	1.27	. 65	63.5	9.9	17.4

Table 135.--Pima test: Seed data for El Paso, Tex.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-34	24.1	3.32	1.12	2.7	13.7
P-39	22.6	3.53	•99	3.2	13.5
E-4	22.9	3.14	1.86	4.1	11.2
E-8	23.5	3.55	1.23	3.2	12.7
E-9	23.9	3.54	1.11	2.7	12.2
E-7	23.3	3.56	1.33	3.1	12.5
P-40	24.6	3.28	1.34	3.7	11.7
Pima S-5	24.2	3.44	•98	3.9	12.5
P-37	23.7	3.38	1.16	3.2	12.7
P-32	24.5	3.51	•99	3.4	13.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-34	1237	130.2	1.015	4.1	12.6
P-39	108.4	119.3	1.065	3.3	11.6
E-4	115.3	124.3	1.009	3.5	13.1
E-8	117.5	125.9	1.038	1.9	12.2
E-9	115.0	124.1	1.034	1.4	12.0
E-7	104.9	116.7	1.070	3.0	11.2
P-40	111.1	121.2	1.045	4.3	11.6
Pima S-5	118.8	126.8	1.010	3.5	12.0
P-37	106.6	117.9	1.044	2.3	11.1
P-32	94.3	108.7	1.037	2.1	9.7

Table 136.--Pima test: Yield, boll, and spinning data for Phoenix, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-34	1214 a	2.87	36.6	13.1	4.70
P-39	1195 a	3.19	38.1	12.4	4.75
P-37	1146 a	3.06	34.7	12.0	4.60
P-32	1068 a	2.80	35.5	10.8	4.40
Pima S-5	1016 ab	3.43	35.6	12.7	4.30
P-40	854 bc	2.95	33.0	11.9	4.30
E-7	675 cd	2.86	34.0	11.8	4.50
E-9	671 cd	3.15	34.7	12.2	4.25
E-8	635 d	2.94	34.5	12.0	4.30
E-4	385 e	2.56	28.8	13.7	4.15
	Span length (in	nches)	Color	rimeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
P-34	1.45	0.75	65.0	12.0	18.8
P-39	1.45	.73	64.5	12.0	17.6
P-37	1.42	.68	63.3	11.9	19.1
P-32	1.33	.68	68.2	11.0	19.7
Pima S-5	1.42	.70	67.3	11.5	17.9
P-40	1.42	. 67	66.0	11.6	16.9
E-7	1.36	.66	64.4	12.2	18.3
E-9	1.41	.69	64.9	11.7	17.7
	1.41	.68	66.0	11.6	17.7
E-8					

Table 137.--Pima test: Seed data for Phoenix, Ariz.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-34	22.6	3.88	1.12	2.2	13.0
P-39	21.0	3.86	•96	1.8	11.0
P-37	21.1	3.88	1.09	1.2	12.0
P-32	23.0	3.86	1.19	2.6	12.0
Pima S-5	22.2	4.00	.89	3.2	12.0
P-40	21.4	3.91	1.04	2.5	10.5
E-7	20.4	4.04	1.05	2.0	12.0
E-9	20.6	4.00	•85	3.4	11.0
E-8	20.8	4.05	•94	2.9	12.0
E-4	19.0	3.78	1.25	6.1	7.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-34	127.9	133.2	1.040	2.5	13.3
P-39	121.9	129.0	1.040	4.3	12.7
P-37	124.6	130.9	1.030	4.5	12.8
P-32	104.0	116.0	1.041	3.4	10.8
Pima S-5	126.6	132.3	1.015	4.2	12.8
P-40	120.0	127.6	1.035	3.2	12.4
E-7	110.8	121.1	1.066	2.8	11.8
E-9	114.2	123.4	1.052	3.5	12.0
E-8	117.2	125.6	1.026	5.0	12.0
E-4	136.0	138.8	.980	6.0	13.3

Table 138.--Pima test: Yield, boll, and spinning data for Wenden, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	1127 a	3.29	43.0	10.9	4.60
P-34	1027 b	3.02	41.6	11.6	4.70
E-9	1004 b	3.14	40.4	10.4	4.50
P-37	990 Ъ	3.16	39.3	11.0	4.60
P-40	985 Ъ	2.91	37.6	11.2	4.25
E-4	982 Ъ	2.70	35.3	11.5	4.30
Pima S-5	943 bc	3.39	40.3	10.9	4.40
P-32	882 c	2.96	39.3	9.7	4.40
E-8	882 c	3.27	39.8	10.6	4.40
E-7	863 c	2.94	39.5	10.4	4.50
	863 c 2.94 39.5 10.4 Span length (inches) Colorimeter	Yarn			
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
P-39	1.33	0.63	66.8	12.1	17.0
P-34	1.36	.67	66.1	12.3	18.4
E-9	1.35	.64	67.2	12.1	18.2
P-37	1.33	. 64	66.9	11.7	18.2
P-40	1.33	.66	68.1	11.5	17.3
E-4	1.41	.68	72.9	9.9	18.4
Pima S-5	1.34	.66	70.4	11.5	17.3
P-32	1.25	.63	70.2	11.2	18.2
E-8	1.37	.67	67.5	11.7	18.0
E-7	1.31	.63	66.8	12.4	17.8

Table 139.--Pima test: Seed data for Wenden, Ariz.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	23.1	3.38	1.19	1.8	12.0
P-34	23.6	3.43	1.14	• 2	13.5
E-9	24.7	3.00	1.27	•8	12.0
P-37	23.0	3.22	1.30	1.7	12.5
P-40	24.0	3.17	1.54	3.1	12.0
E-4	22.7	2.76	1.84	4.4	11.0
Pima S-5	24.9	3.32	1.16	.1	12.5
P-32	24.2	3.24	1.30	•3	13.0
E-8	24.0	3.23	1.16	1.8	13.0
E-7	22.7	3.30	1.45	2.4	12.5
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	101.4	114.1	1.074	2.5	10.9
P-34	117.4	125.8	1.032	3.0	12.1
E-9	101.8	114.4	1.055	2.5	10.7
P-37	107.0	118.3	1.053	2.8	11.3
P-40	105.1	116.9	1.059	.8	11.1
E-4	114.1	123.5	1.010	3.8	11.5
Pima S-5	111.1	121.3	1.030	5.5	11.4
P-32	93.7	108.3	1.056	2.5	9.9
E-8	102.4	114.9	1.052	2.5	10.7
E-7	97.8	111.4	1.088	1.3	10.6

Table 140.--Pima test: Yield, boll, and spinning data for Safford, Ariz. (Curtis farm)

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-40	1044 a	2.99	36.8	12.0	4.30
P-39	1028 ab	3.45	42.2	11.8	4.70
P-34	941 bc	3.16	40.9	12.6	4.80
P-37	932 bc	3.35	38.8	11.8	4.90
E-4	876 cd	2.78	35.4	12.1	4.25
P-32	817 de	3.12	39.7	10.3	4.50
Pima S-5	780 de	3.44	39.2	11.9	4.50
E-8	725 ef	3.41	39.3	12.1	4.40
E-9	719 ef	3.39	39.2	12.2	4.45
E-7	659 f	3.11	39.4	11.4	4.55
	Span length (inches)	Color	imeter	Yarn
	2.5%	50%	\overline{R}_d	Hunter's b value	tenacity (cN/tex)
P-40	1.41	0.67	67.6	11.5	17.3
9-39	1.39	.65	65.4	12.0	17.1
-34	1.37	.69	62.9	12.2	18.1
-37	1.35	.65	64.7	11.8	18.2
-4	1.43	.69	69.4	9.7	17.6
7-32	1.32	.67	66.5	10.9	18.8
'ima S-5	1.40	.66	70.0	11.3	17.4
8-8	1.40	.66	65.8	11.9	17.2
. 0	1.41	.66	64.5	11.7	17.6
-9					

Table 141.--Pima test: Seed data for Safford, Ariz. (Curtis farm)

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-40	22.2	3.63	1.27	1.9	11.5
P-39	19.8	3.69	•97	1.5	12.5
P-34	21.3	3.73	•95	•7	14.0
P-37	20.8	3.52	1.17	1.0	13.0
E-4	18.3	3.29	1.46	4.0	8.5
P-32	22.4	3.42	1.30	1.7	14.0
Pima S-5	21.6	3.76	1.06	•9	13.5
E-8	20.8	3.79	1.03	1.3	13.0
E-9	20.4	3.76	1.01	3.8	12.0
Е-7	20.4	3.83	1.13	2.1	13.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-40	114.8	123.9	1.059	2.8	12.2
P-39	111.7	121.7	1.053	6.8	11.8
P-34	125.6	131.6	1.034	5.8	13.0
P-37	112.0	121.9	1.078	5.0	12.1
E-4	112.2	129.2	.965	10.3	11.8
P-32	97.4	111.1	1.053	5.0	10.2
Pima S-5	120.4	128.0	1.039	5.0	12.5
E-8	121.9	129.0	•997	4.8	12.2
E-9	121.2	128.5	1.006	3.5	12.2
E-7	111.6	121.7	1.027	3.8	11.5

Table 142.--Pima test: Yield, boll, and spinning data for Safford, Ariz. (Station)

Variety	Lint yield (lb/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	984 a	3.72	41.6	12.0	4.90
E-4	953 a	2.96	34.8	12.4	4.55
E-8	885 ab	3.47	38.6	11.7	4.65
P-34	873 ab	3.53	40.2	13.3	4.90
Pima S-5	855 abc	3.52	39.5	11.8	4.50
E-9	813 bc	3.61	38.4	12.1	4.55
P-40	811 bc	3.16	36.5	12.3	4.60
P-37	787 bc	3.56	37.9	12.1	4.90
E-7	779 bc	3.24	38.8	11.1	4.90
P-32	727 c	3.19	38.6	10.1	4.60
	Span length (:	inches)	Color	Yarn	
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
P-39	1.42	0.73	66.4	11.9	18.3
E-4	1.45	. 75	72.8	9.4	17.9
E-8	1.38	.68	67.6	12.0	18.1
P-34	1.38	.69	64.7	12.2	18.9
Pima S-5	1.40	.72	68.4	11.8	18.4
E-9	1.39	.67	68.0	11.3	18.7
P-40	1.45	.71	67.3	11.3	17.9
P-37	1.40	.70	65.7	11.7	19.2
E-7	1.34	.68	64.7	12.7	18.3
P-32	1.30	.68	70.1	11.7	19.7

Table 143.--Pima test: Seed data for Safford, Ariz. (Station)

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39 E-4 E-8 P-34 Pima S-5 E-9 P-40 P-37 E-7	22.0 23.1 23.5 22.8 24.2 23.6 23.2 23.1 22.9	3.52 2.90 3.39 3.63 3.47 3.46 3.43 3.41 3.49	1.14 1.78 1.29 .99 1.16 1.18 1.33 1.21 1.33	7.6 2.0 3.1 1.0 1.9 3.6 3.9 2.9	12.0 9.5 12.0 14.0 13.0 12.0 11.0 12.5 13.0
P-32	Seed volume (mm ³)	3.36 Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39 E-4 E-8 P-34 Pima S-5 E-9 P-40 P-37 E-7 P-32	121.9 120.5 123.6 134.0 117.9 120.7 121.5 122.8 108.2 101.6	129.1 128.0 130.2 137.4 126.2 128.2 128.8 129.7 119.2 114.3	0.997 1.052 1.038 1.015 1.008 1.038 1.030 1.025 1.068 1.018	2.3 2.0 1.8 5.0 5.5 1.5 1.3 4.0 1.8	12.2 12.7 12.8 13.6 11.9 12.5 12.5 12.6 11.6

Table 144.--Pima test: Yield, boll, and spinning data for Marana, Ariz. (Clark farm)

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	976 a	3.50	39.5	11.6	4.50
P-40	925 a	3.27	34.8	12.1	4.40
E-9	898 ab	3.77	37.6	11.9	4.60
P-34	882 abc	3.22	38.2	12.1	4.50
E-8	881 abc	3.61	36.7	11.7	4.55
P-37	873 abc	3.34	35.8	11.5	4.50
P-32	873 abc	3.34	36.8	10.5	4.35
Pima S-5	817 abc	3.75	36.9	12.4	4.35
E-7	726 bc	3.39	35.6	12.2	4.60
E-4	708 c	3.25	31.1	13.9	4.55
	Span length (inches)		Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
P-39	1.42	0.69	63.5	12.0	17.9
P-40	1.45	.70	65.3	11.5	16.5
E-9	1.44	.70	62.7	11.6	18.3
9-34	1.43	.69	63.0	12.4	18.4
E-8	1.43	.68	63.7	11.6	18.4
9-37	1.38	.68	64.0	11.9	18.7
9-32	1.37	.69	67.9	11.2	18.8
Pima S-5	1.45	.70	67.0	11.4	18.5
E-7	1.31	.66	63.3	11.8	18.5

Table 145.--Pima test: Seed data for Marana, Ariz. (Clark farm)

Variety .	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	21.4	3.69	0.97	3.8	10.5
P-40	23.1	3.68	1.33	3.2	9.0
E-9	22.3	3.62	1.11	2.6	11.0
P-34	23.1	3.64	1.07	•9	14.0
E-8	22.0	3.69	1.26	2.3	12.5
P-37	22.1	3.52	1.10	2.1	11.5
P-32	24.9	3.60	1.29	2.4	13.0
Pima S-5	23.4	3.74	1.08	3.1	13.0
E-7	21.3	3.88	1.45	3.4	10.5
E-4	21.4	3.59	1.64	5.1	7.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	114.5	123.7	1.035	5.5	11.9
P-40	115.5	124.4	1.024	4.0	12.1
E-9	115.6	124.5	1.041	3.5	12.0
P-34	124.9	131.1	1.025	5.3	12.8
E-8	113.4	122.9	1.052	3.0	11.9
P-37	100.9	113.6	1.165	4.3	11.6
P-32	102.3	114.8	1.035	1.8	10.6
Pima S-5	122.9	129.7	1.021	6.3	12.6
E-7	111.6	121.6	1.068	2.5	10.8
	133.3	136.9	1.028	3.5	13.7

Table 146.--Pima test: Yield, boll, and spinning data for Coolidge, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-37	479 a	3.33	36.2	12.0	4.10
P-34	461 a	3.27	38.4	12.9	4.30
P-39	446 a	3.43	39.1	12.3	4.15
P-32	380 b	3.05	35.6	11.1	4.00
Pima S-5	359 bc	3.71	35.2	13.1	4.00
P-40	333 cd	3.07	33.5	12.8	4.05
E-8	317 cd	3.52	35.7	12.4	4.10
E-9	316 cd	3.38	35.9	12.5	4.10
E-4	306 d	2.93	32.8	13.0	4.15
E-7	298 d	3.03	35.3	12.4	4.25
	Span length (i	nches)	Colorimeter		Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
P-37	1.46	0.69	66.5	11.5	18.3
P-34	1.45	.72	65.2	11.5	18.9
P-39	1.51	.72	66.4	11.1	17.7
P-32	1.41	. 70	68.2	10.8	19.2
Pima S-5	1.48	.69	66.9	11.1	17.5
P-40	1.45	.68	66.0	11.2	16.4
E-8	1.46	.67	65.2	11.4	17.3
E-9	1.43	. 68	64.7	11.4	17.3
E-4	1.48	.68	67.2	9.5	17.0

Table 147.--Pima test: Seed data for Coolidge, Ariz.

Variety	0il (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-37	21.2	3.19	1.26	0.8	13.0
P-34	21.5	3.45	1.14	•3	13.0
P-39	20.3	3.38	1.23	1.0	12.0
P-32	23.2	3.30	1.59	• 2	12.5
Pima S-5	23.0	3.56	1.41	• 2	13.0
P-40	22.1	3.46	1.57	1.9	11.0
E-8	22.5	3.37	1.41	1.1	11.5
E-9	21.9	3.43	1.18	. 8	11.5
E-4	19.9	3.31	1.68	3.6	9.0
E-7	21.2	3.66	1.44	1.7	11.0
	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-37	120.0	127.7	1.015	8.0	12.2
P-34	132.8	136.6	•986	7.8	13.1
P-39	123.3	130.0	.999	6.3	12.4
P-32	109.3	120.0	1.026	7.0	11.2
Pima S-5	134.0	137.4	1.020	5.3	13.7
P-40	122.4	129.4	1.007	9.3	12.4
E-8	122.6	129.5	1.029	5.8	12.6
E-9	120.4	128.0	1.042	5.0	12.5
E-4	129.3	134.2	•972	13.3	12.6
E-7	115.1	124.2	1.065	3.3	12.3

Table 148.--Pima test: Yield, boll, and spinning data for Salome, Ariz.

Variety	Lint yield (1b/acre)	Boll size (g/boll)	Lint percent	Seed index	Micronaire reading
P-39	447 a	2.84	42.9	10.2	4.80
P-40	422 a	2.63	37.7	10.9	4.35
E-4	414 a	2.21	37.3	11.4	4.65
P-37	389 a	2.84	39.1	10.3	4.70
Pima S-5	361 a	2.89	40.8	10.1	4.60
E-8	360 a	2.83	39.0	10.5	4.50
E-9	359 a	2.85	40.1	10.0	4.60
P-34	352 a	2.55	41.0	10.9	4.40
E-7	345 a	2.65	39.2	10.3	4.60
P-32	342 a	2.67	40.0	9.0	4.65
	Span length (in	nches)			Yarn
	2.5%	50%	R_d	Hunter's b value	tenacity (cN/tex)
P-39	1.32	0.62	64.5	12.6	17.0
P-40	1.29	.60	66.6	11.7	17.8
E-4	1.38	.55	71.1	10.5	17.5
P-37	1.28	.59	65.7	11.5	17.6
Pima S-5	1.28	.63	67.0	12.1	16.3
E-8	1.34	.63	66.0	12.2	17.8
E-9	1.32	. 61	66.0	11.8	17.9
P-34	1.28	. 64	64.4	12.1	18.7
E-7	1.30	.63	64.8	12.3	18.5
P-32	1.21	.61	69.0	11.4	18.6

Table 149.--Pima test: Seed data for Salome, Ariz.

Variety	Oil (percent)	Nitrogen (percent)	Free gossypol (percent)	Linters (percent)	Seed grade
P-39	19.4	3.72	0.93	2.6	12.0
P-40	21.3	3.55	1.05	4.9	11.0
E-4	18.4	3.19	1.42	5.5	8.0
P-37	20.4	3.60	1.01	2.4	13.0
Pima S-5	20.5	3.79	•96	2.3	12.5
E-8	20.8	3.62	1.05	1.9	12.0
E-9	19.8	3.59	•90	2.8	12.0
P-34	19.9	3.64	•93	2.2	13.5
E-7	20.2	3.67	1.15	1.5	12.0
P-32	21.9	3.65	1.00	1.8	13.0
r-J2 •••••••••	Seed volume (mm ³)	Seed surface area (mm ²)	Seed density (g/cm ³)	Floaters (percent)	Acid- delinted- seed index
P-39	92.7	107.4	1.064	11.8	9.9
P-40	96.4	110.3	1.086	6.5	10.5
E-4	108.2	119.1	1.013	14.8	11.0
P-37	95.9	109.9	1.101	6.3	10.6
Pima S-5	94.6	108.9	1.043	10.8	9.9
E-8	97.8	111.4	1.102	3.8	10.8
E-9	90.3	115.7	1.097	9.3	9.9
P-34	102.0	114.6	1.045	11.5	10.7
E-7	93.0	107.7	1.111	4.5	10.4
P-32	86.3	102.5	1.075	5.5	9.3

COMBED-YARN TEST Table 150.--Combed-yarn test: Phoenix, Ariz.

			Variety		
Test	Pima S-5	P-32	P-34	P-37	P-39
Classer's designation:					
Grade	9	6	9	7	6
Staple: 32's inch	44	46	44	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	16.0	17.2	16.9	17.4	16.0
7.4 .tex, combed	13.9	15.0	14.6	15.4	13.9
Yarn appearance index	115	120	120	110	115
Yarn imperfections:					
11.8 tex, combed	2	2	1	2	1
7.4 tex, combed	1	2	2	1	1
Waste, percent:					
Picker and card	13.1	11.2	12.8	12.4	12.5
Comber	12.8	12.8	12.6	13.2	12.4
	P-40	E-4	E-7	E-8	E-9
Classer's designation:					
Grade	10	10	10	7	8
Staple: 32's inch	44	46	44	46	46
Yarn tenacity, cN/tex:					
11.8 tex, combed	15.3	16.0	16.2	16.2	16.7
7.4 tex, combed	13.5	14.3	14.6	14.3	14.6
Yarn appearance index	115	110	115	100	105
Yarn imperfections:					
11.8 tex, combed	1	2	2	1	2
7.4 tex, combed	1	1	1	2	2
Waste, percent:					
Picker and card	15.7	31.8	23.5	14.7	15.1
Comber	14.0	15.6	13.6	13.4	13.0

Table 151. -- Combed-yarn test: Safford, Ariz.

Test	Variety					
	Pima S-5	P-32	P-34	P-37	P-39	
Classer's designation:						
Grade	5	5	6	6	5	
Staple: 32's inch	46	46	46	46	46	
Yarn tenacity, cN/tex:						
11.8 tex, combed	17.2	18.1	17.2	17.4	16.2	
7.4 tex, combed	15.4	15.8	15.4	15.8	14.6	
Yarn appearance index	115	120	125	110	110	
Yarn imperfections:						
11.8 tex, combed	1	2	1	2	1	
7.4 tex, combed	2	1	1	1	1	
Waste, percent:					_	
Picker and card	11.1	10.5	11.3	11.0	11.0	
Comber	12.0	11.2	9.6	13.4	12.0	
	P-40	E-4	E-7	E-8	E-9	
Classer's designation:						
Grade	6	8	7	6	6	
Staple: 32's inch	46	46	46	46	46	
Yarn tenacity, cN/tex:						
11.8 tex, combed	16.7	16.2	14.6	16.9	17.4	
7.4 tex, combed	14.6	14.6	13.9	15.4	15.4	
Yarn appearance index	115	110	115	110	110	
Yarn imperfections:						
11.8 tex, combed	2	2	1	2	2	
7.4 tex, combed	1	2	1	2	1	
Waste, percent:						
Picker and card	13.9	22.2	13.5	10.3	12.5	
Comber	11.4	12.3	12.6	12.4	11.6	

Table 152.--Combed-yarn test: Fabens, Tex.

Test	Variety					
	Pima S-5	P-32	P-34	P-37	P-39	
Classer's designation:						
Grade	7	7	7	7	6	
Staple: 32's inch	46	44	46	46	46	
Yarn tenacity, cN/tex:						
11.8 tex, combed	15.7	16.5	15.5	15.7	14.3	
7.4 tex, combed	13.5	14.3	13.1	14.3	12.8	
Yarn appearance index	115	115	120	110	110	
Yarn imperfections:						
11.8 tex, combed	2	1	2	1	2	
7.4 tex, combed	1	2	2	1	1	
Waste, percent:						
Picker and card	10.4	12.4	12.2	14.4	13.6	
Comber	13.6	14.0	14.7	15.1	14.9	
	P-40	E-4	E-7	E-8	E-9	
Classer's designation:						
Grade	8	10	8	6	7	
Staple: 32's inch	46	46	46	46	46	
Yarn tenacity, cn/tex:						
11.8 tex, combed	15.0	14.8	15.5	15.7	15.5	
7.4 tex, combed	13.5	12.8	13.5	13.9	13.1	
Yarn appearance index	110	110	115	110	110	
Yarn imperfections:						
11.8 tex, combed	2	. 2	1	2	1	
7.4 tex, combed	2	2	2	2	1	
Waste, percent:						
Picker and card	18.1	23.0	16.0	12.4	15.0	
Comber	14.8	16.8	16.8	15.3	15.9	

Table 153.--Combined-yarn test: El Paso, Tex.

Test	Variety					
	Pima S-5	P-32	P-34	P-37	P-39	
Classer's designation:						
Grade	6	5	6	6	6	
Staple: 32's inch	46	44	46	46	46	
Yarn tenacity, cN/tex:						
11.8 tex, combed	14.8	16.2	15.5	16.2	14.8	
7.4 tex, combed	12.8	14.3	13.5	14.3	13.1	
Yarn appearance index	110	120	110	110	110	
Yarn imperfections:						
11.8 tex, combed	2	1	1	1	2	
7.4 tex, combed	2	1	2	2	1	
Waste, percent:						
Picker and card	13.1	10.3	10.7	11.1	10.4	
Comber	15.1	14.2	14.5	13.9	13.7	
	P-40	E-4	<u>E-7</u>	E-8	E-9	
Classer's designation:						
Grade	6	10	8	6	7	
Staple: 32's inch	46	46	46	46	46	
Yarn tenacity, cN/tex:						
11.8 tex, combed	15.3	15.3	16.0	15.7	15.7	
7.4 tex, combed	12.8	13.9	14.3	13.9	13.5	
Yarn appearance index	115	110	110	110	115	
Yarn imperfections:						
11.8 tex, combed	1	2	1	1	2	
7.4 tex, combed	1	1	1	1	2	
Waste, percent:						
Picker and card	13.9	24.7	16.0	10.9	12.2	
Comber	13.5	15.5	15.0	15.4	14.4	

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